

1 / 73

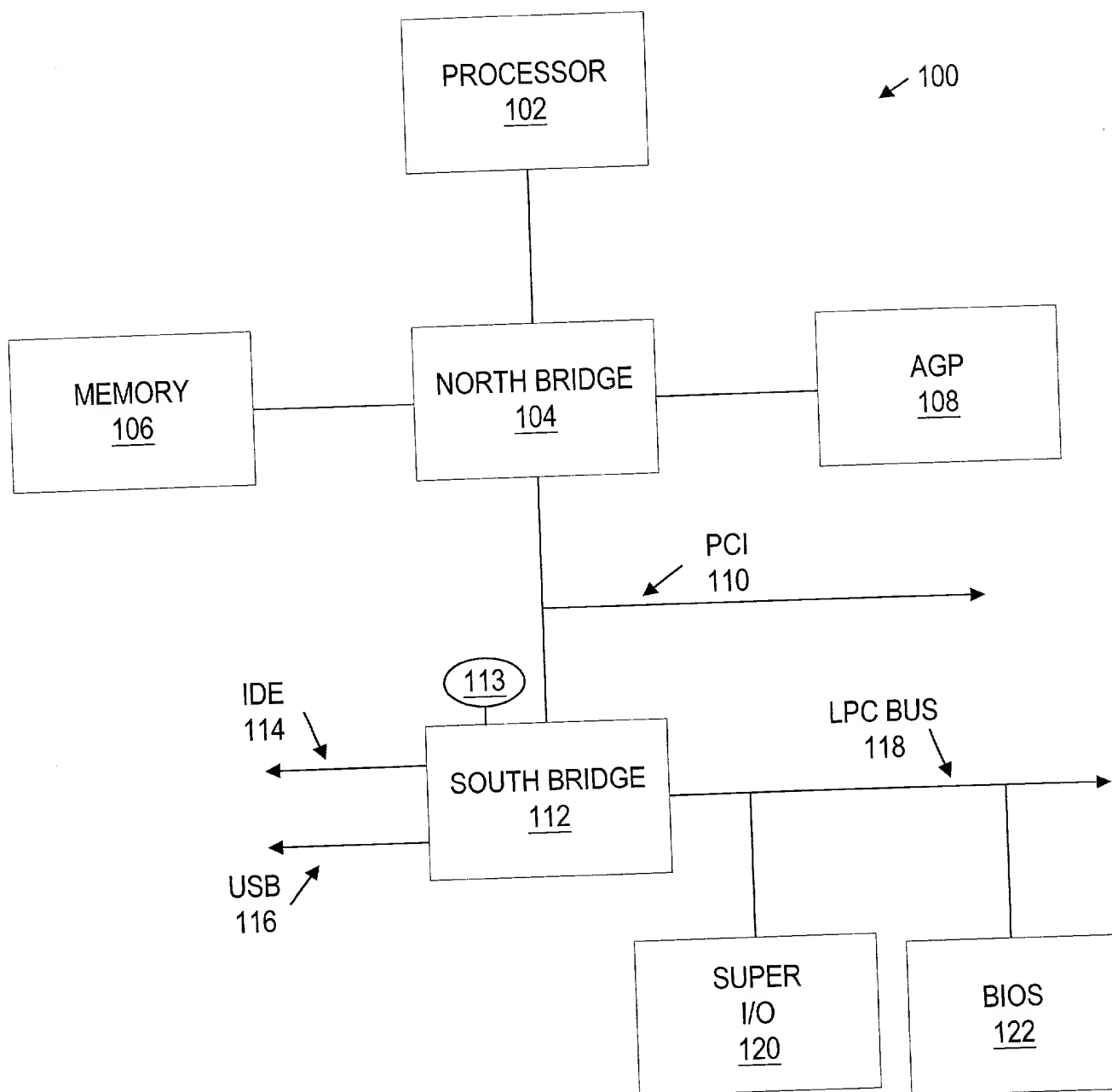


Fig. 1A
(Prior Art)

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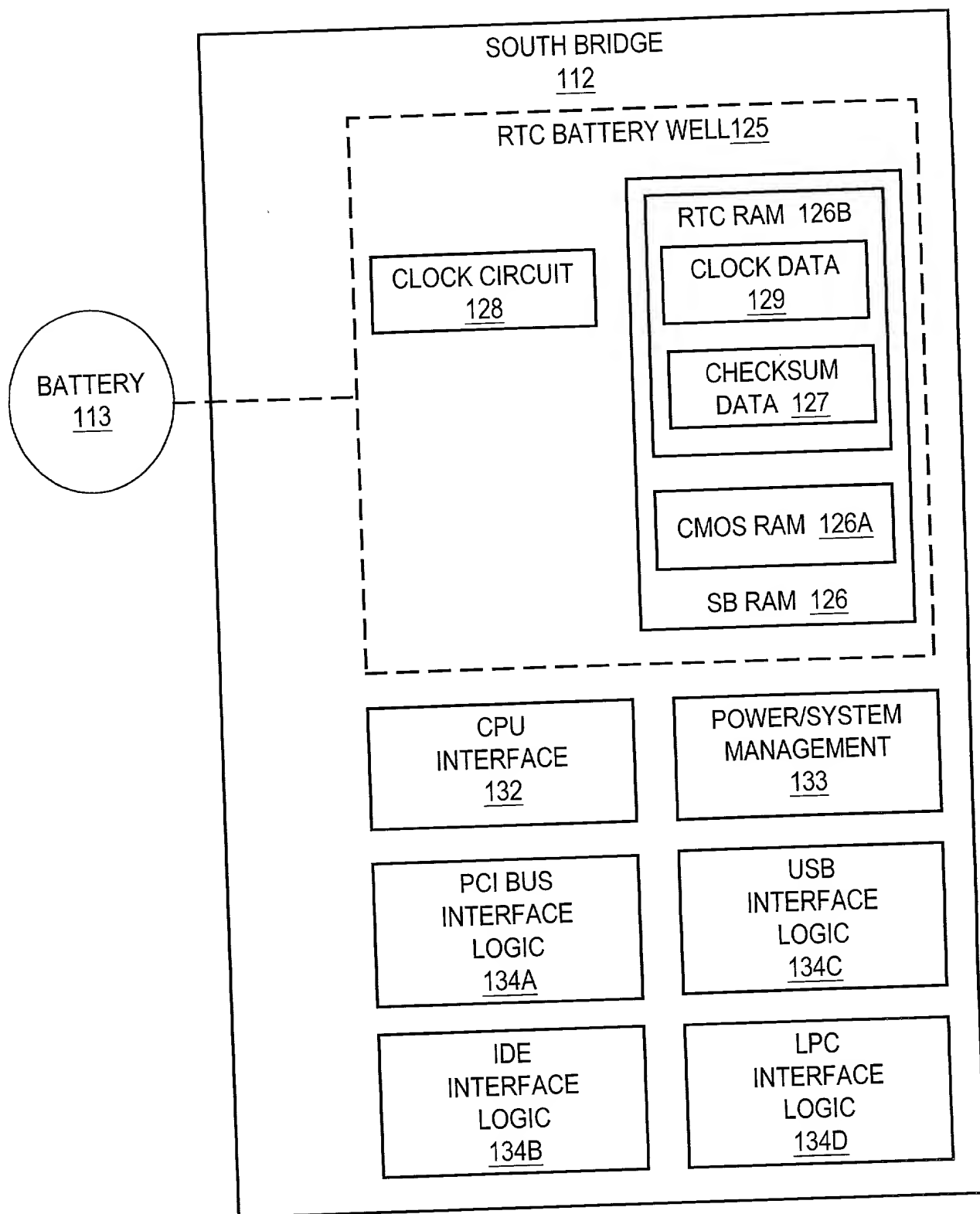


Fig. 1B
(Prior Art)

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135

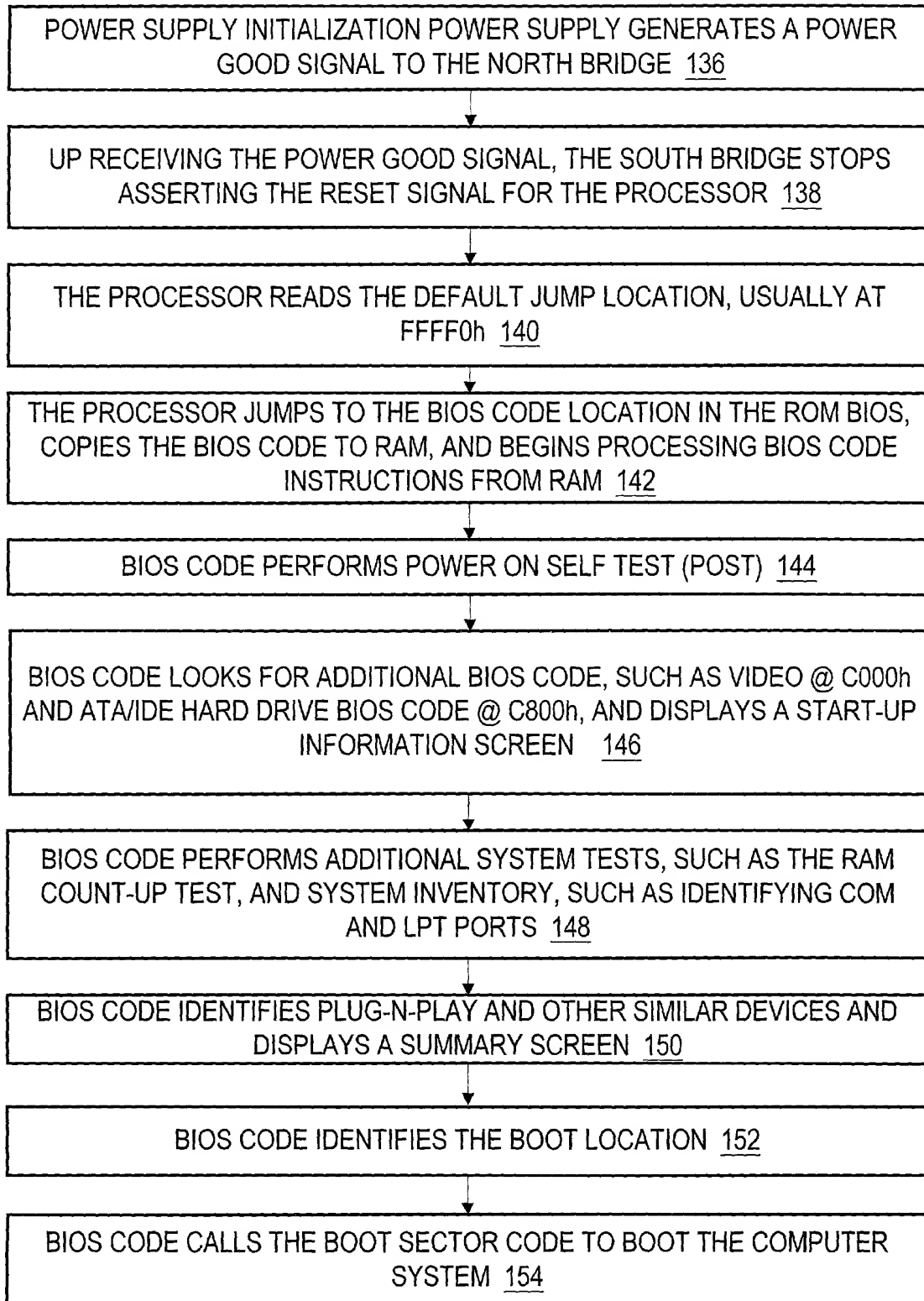


Fig. 2A
(Prior Art)

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170

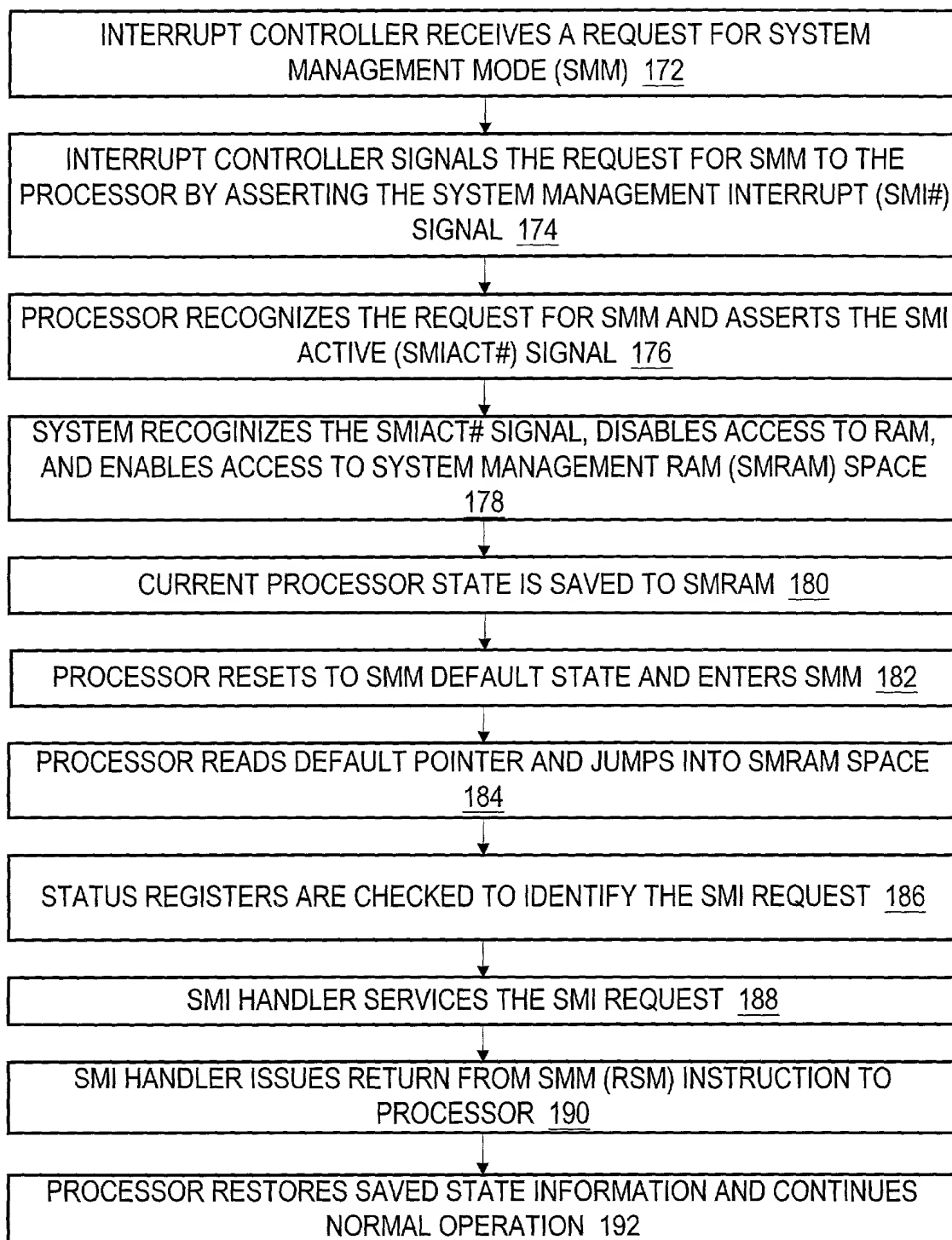


Fig. 2B
(Prior Art)

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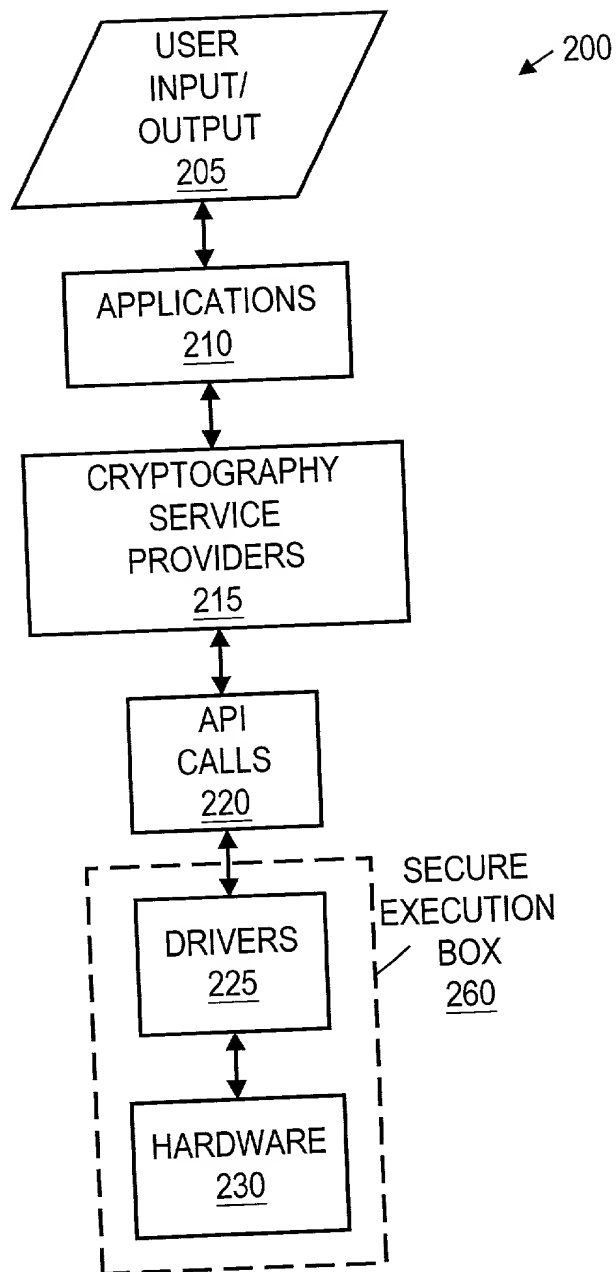


Fig. 3

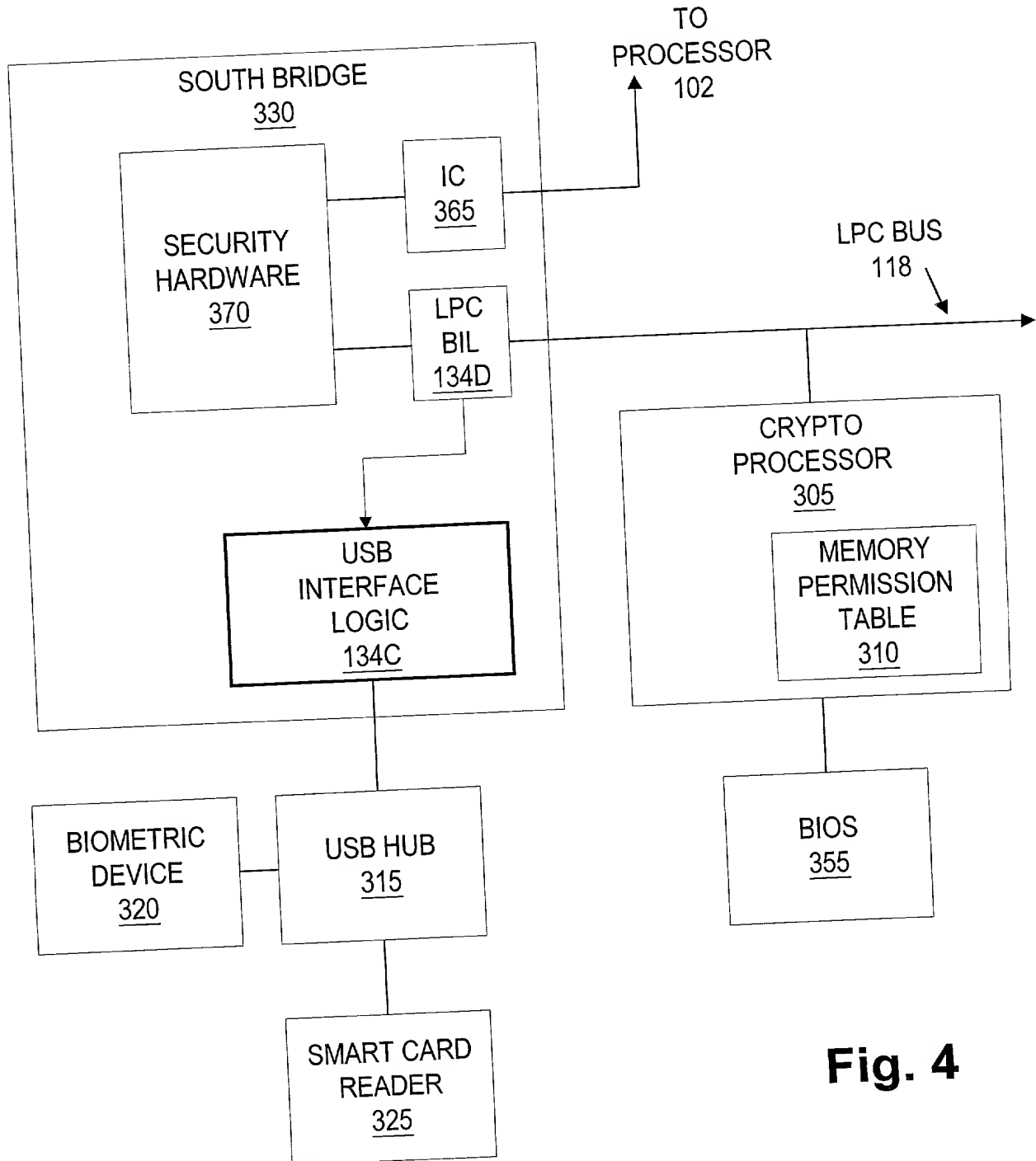


Fig. 4

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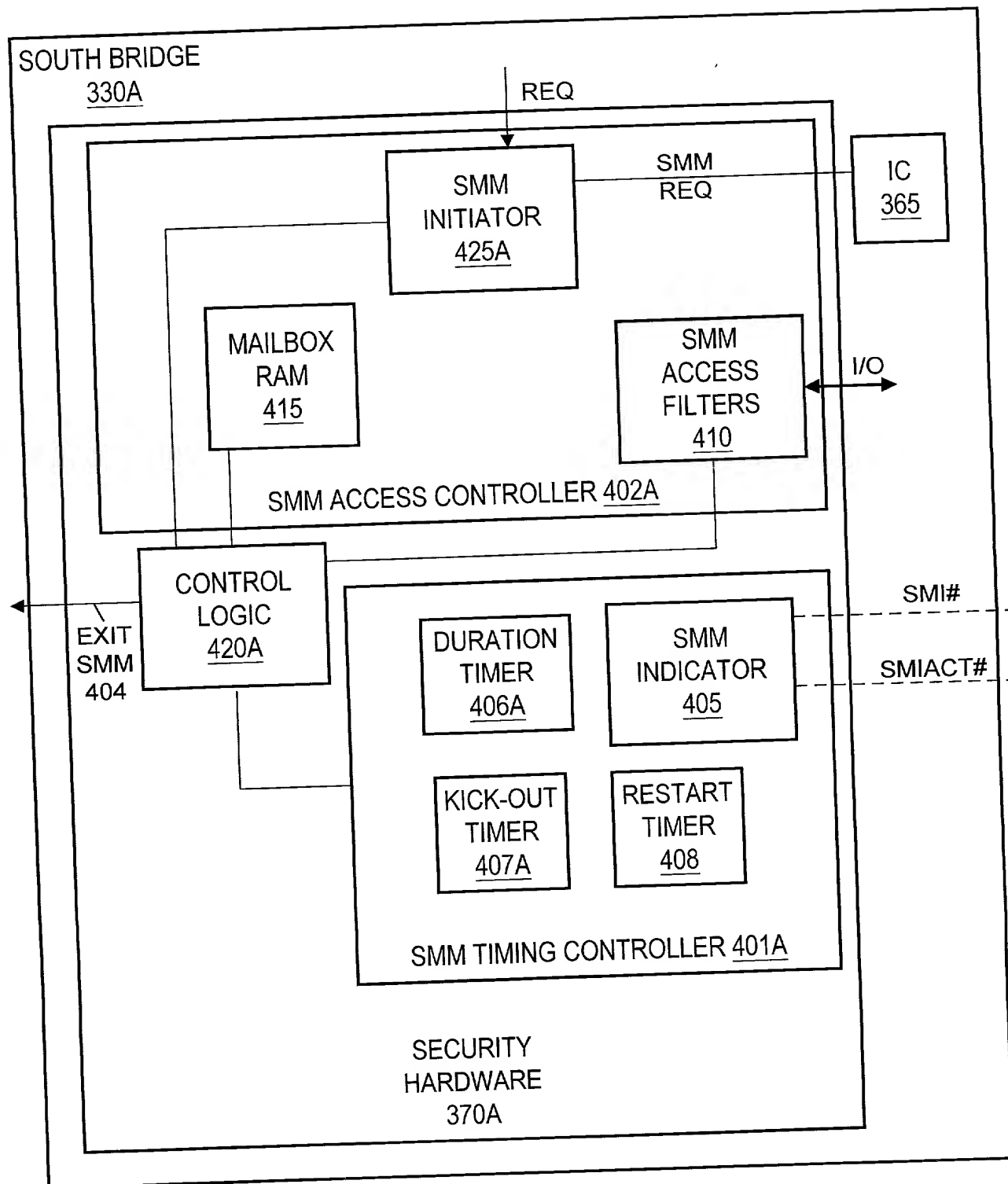


Fig. 5A

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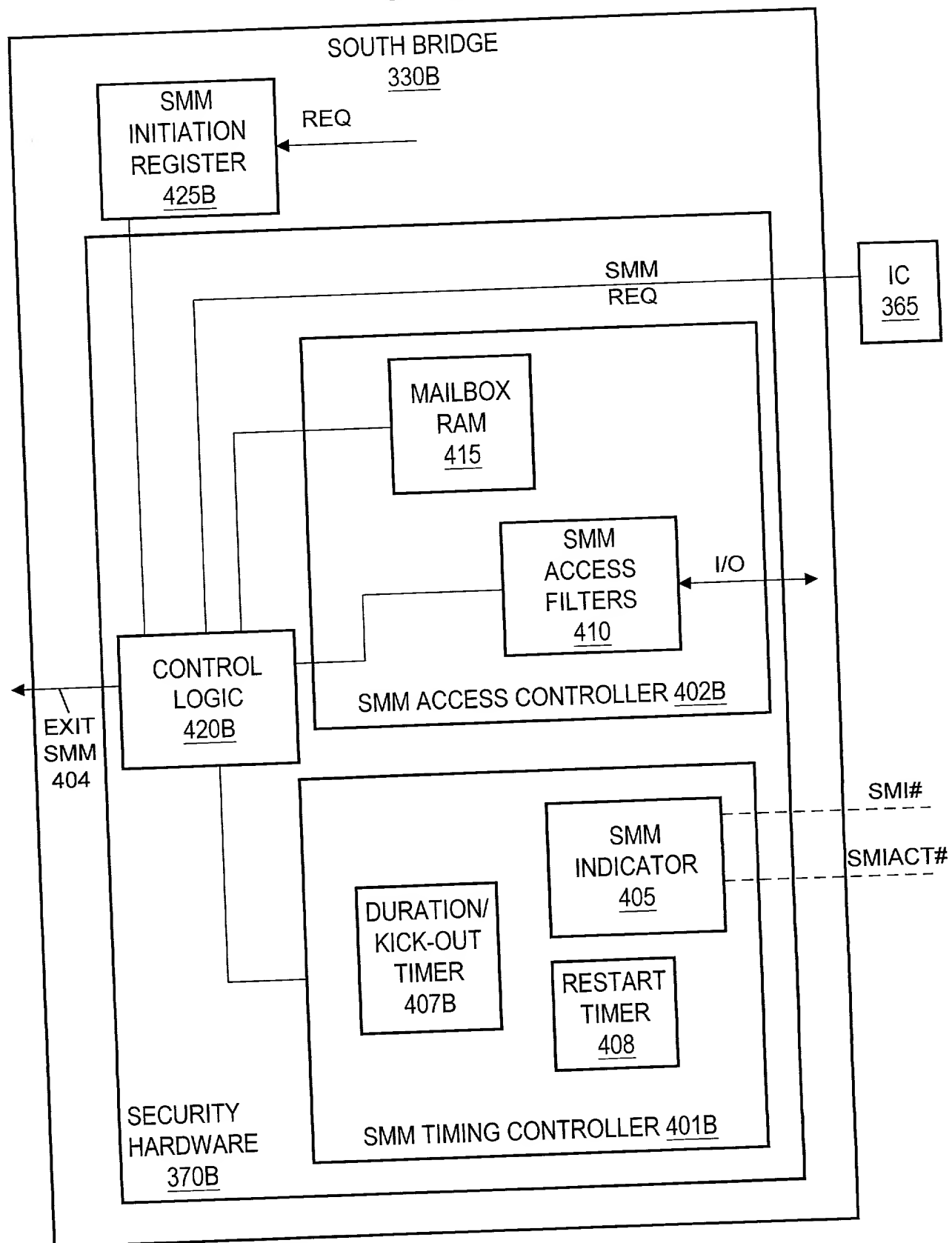


Fig. 5B

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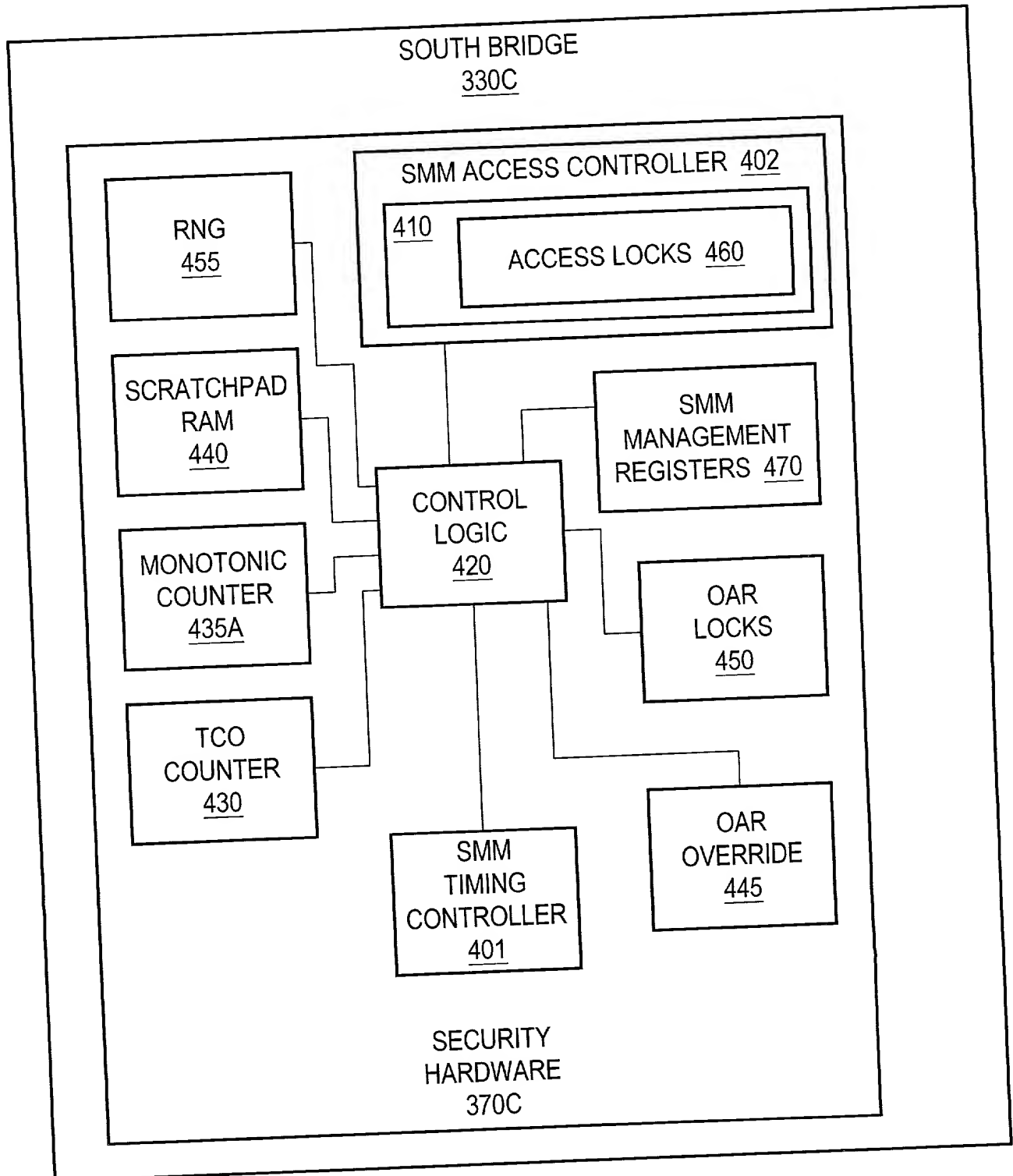


Fig. 6

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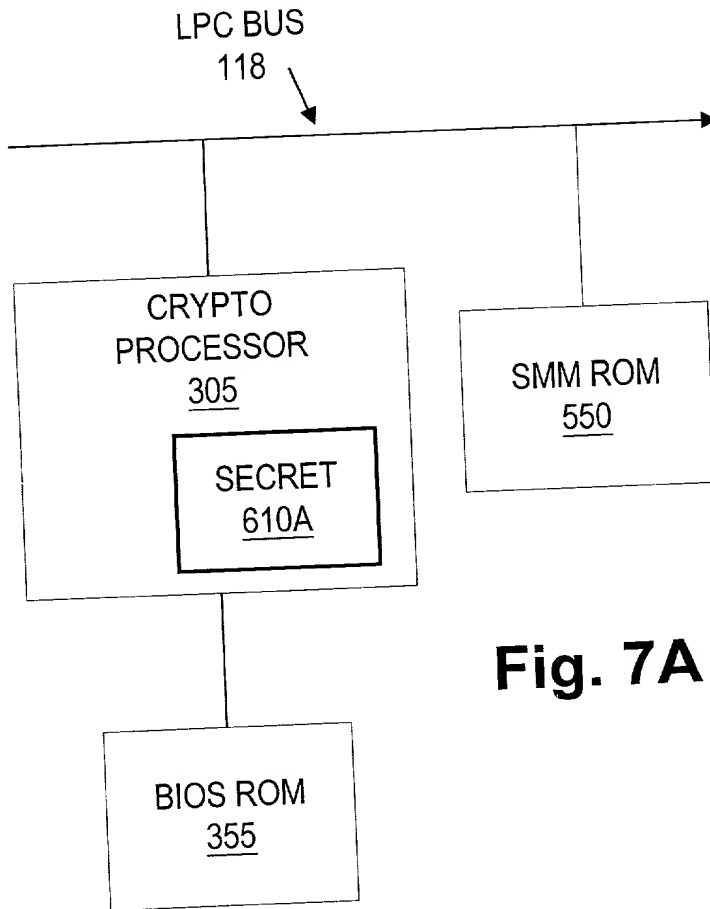


Fig. 7A

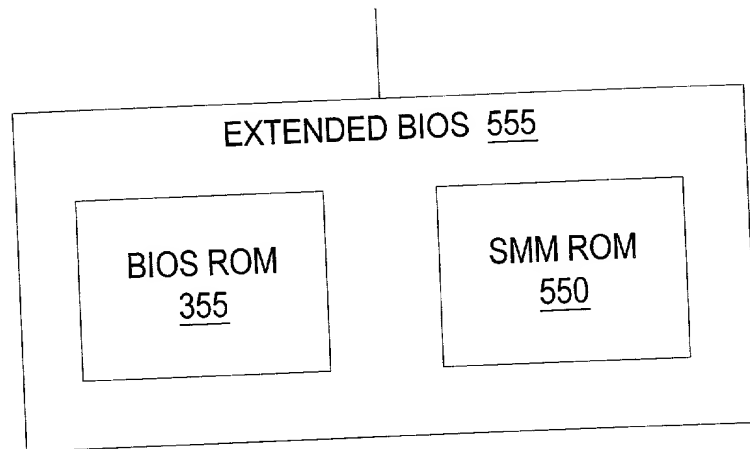


Fig. 7B

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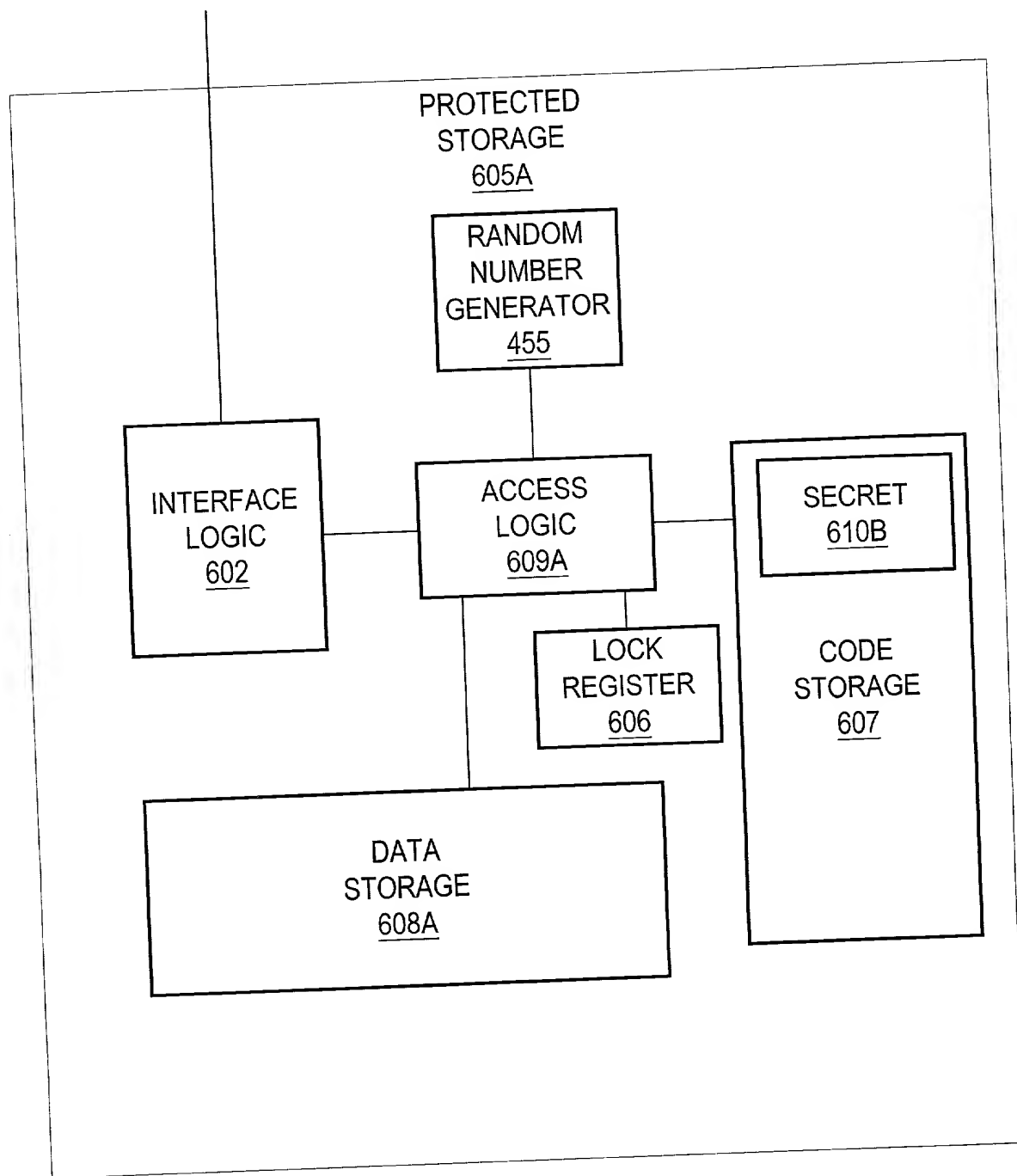


Fig. 7C

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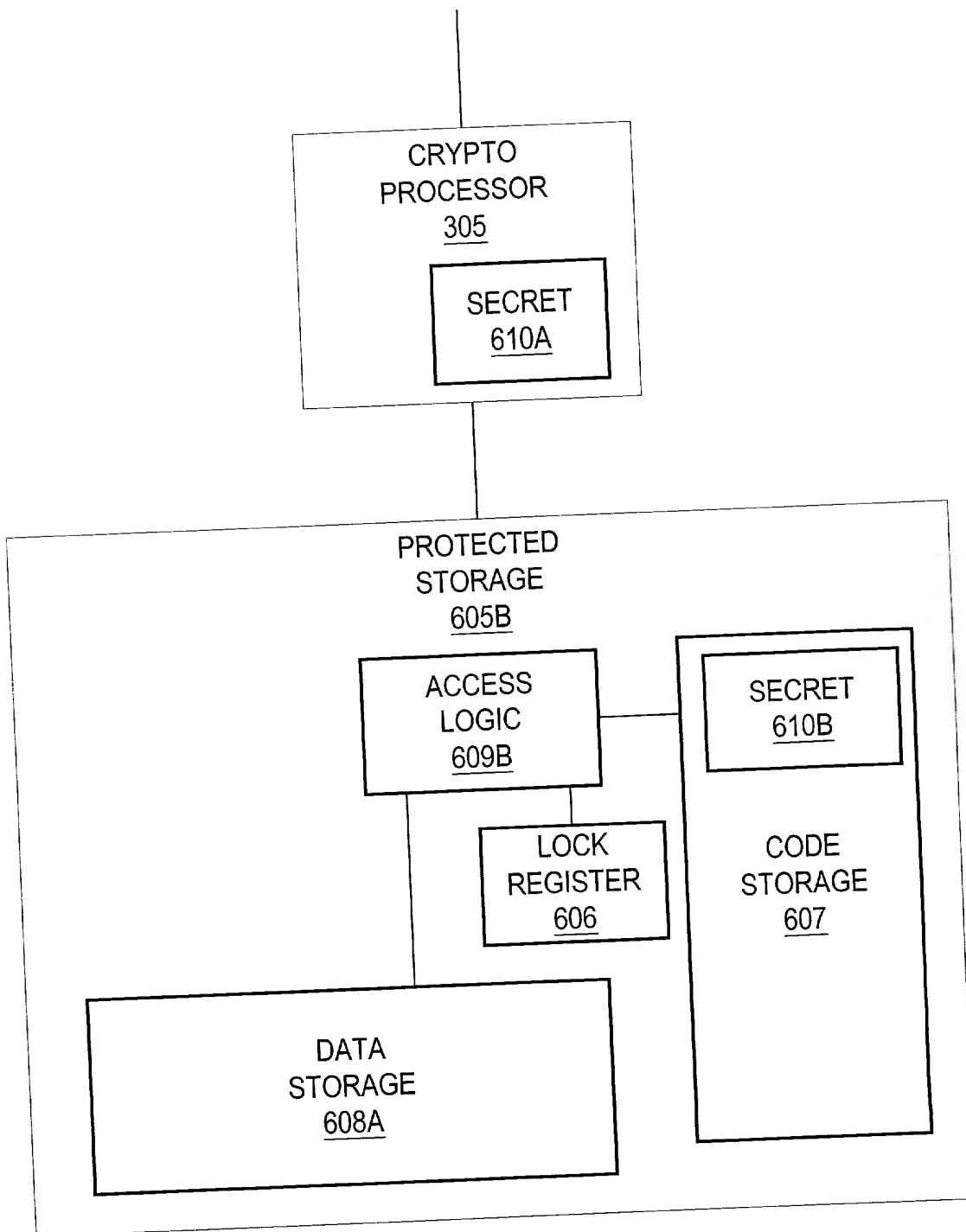


Fig. 7D

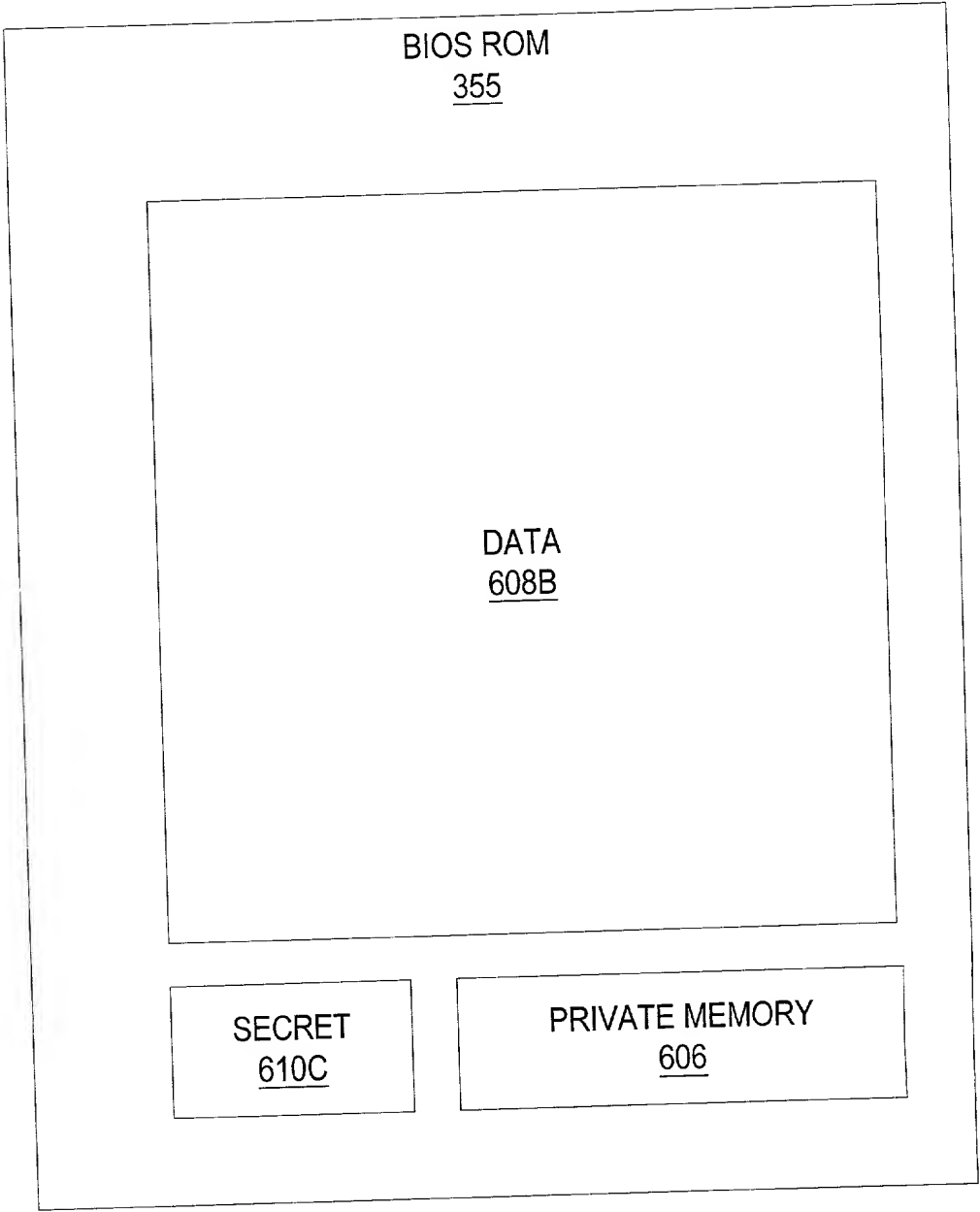


Fig. 8A

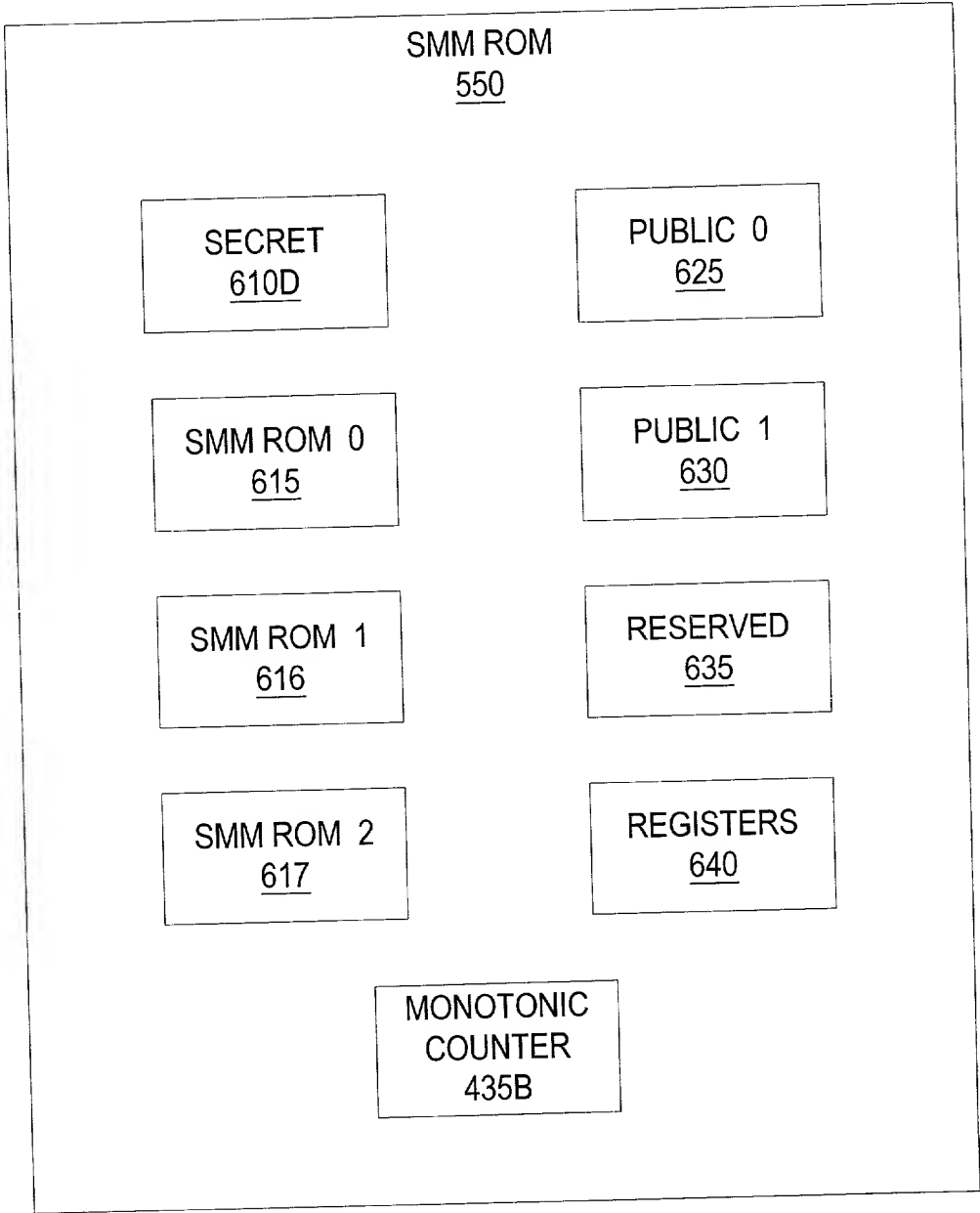


Fig. 8B

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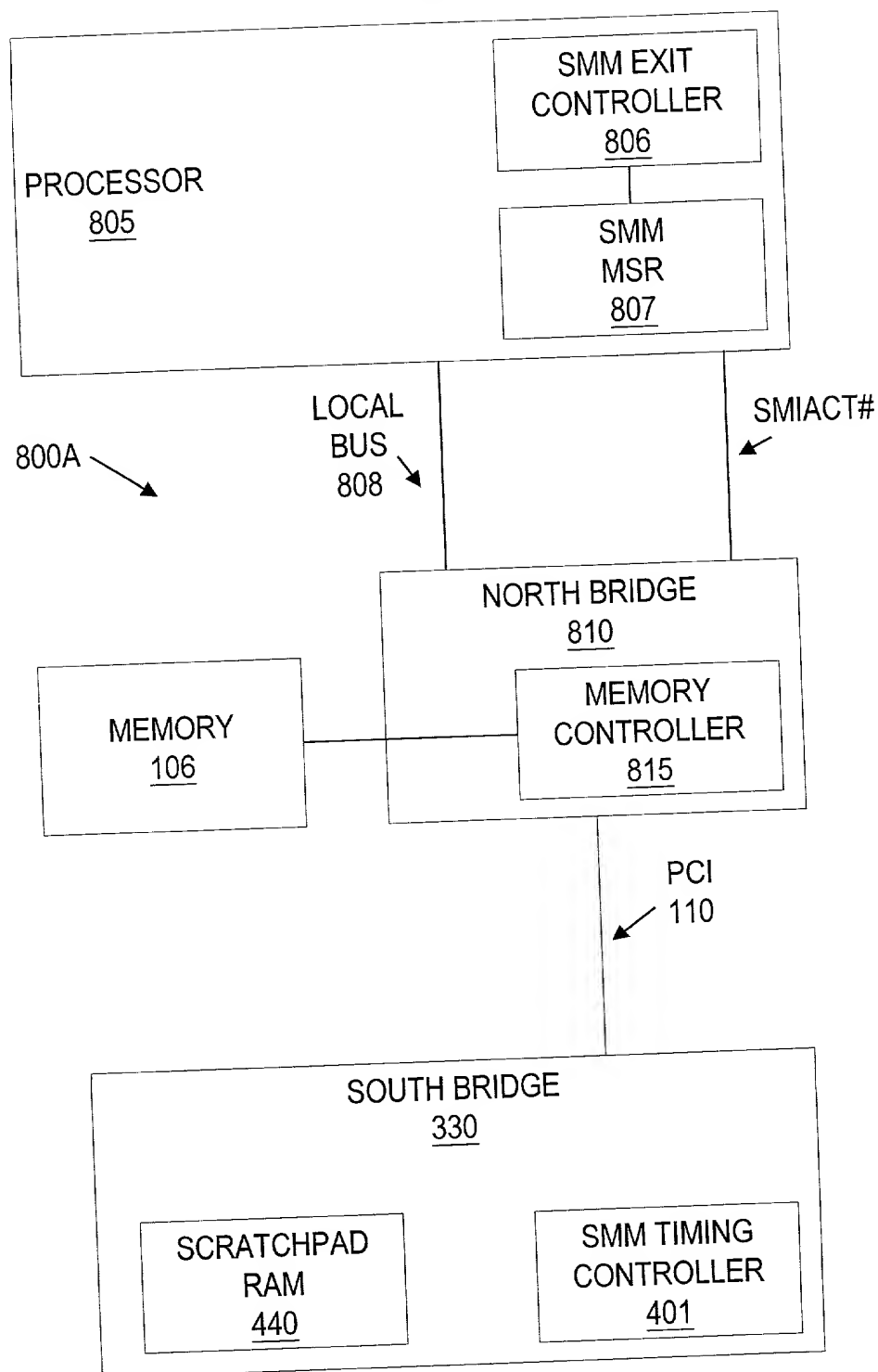


Fig. 9A

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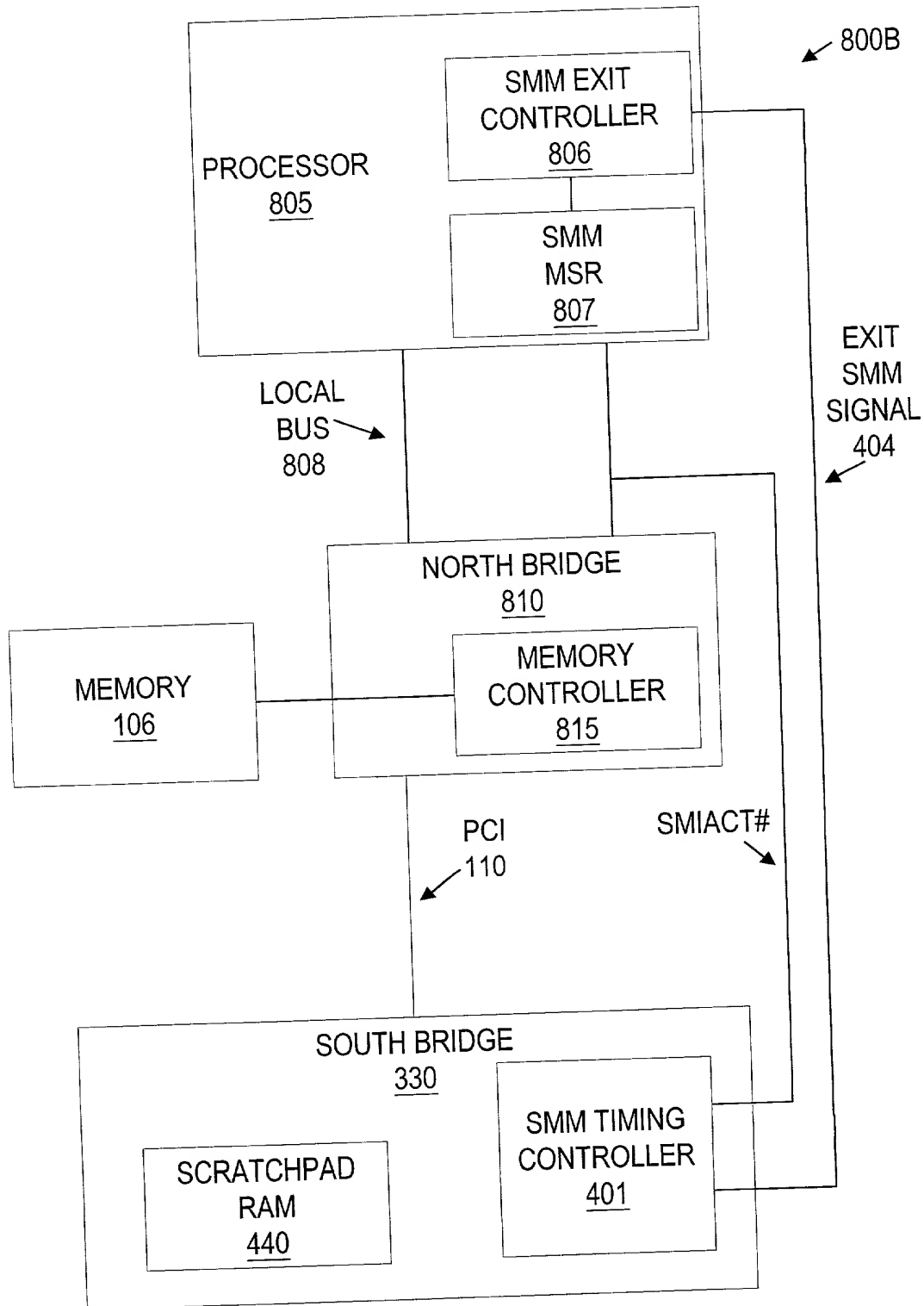


Fig. 9B

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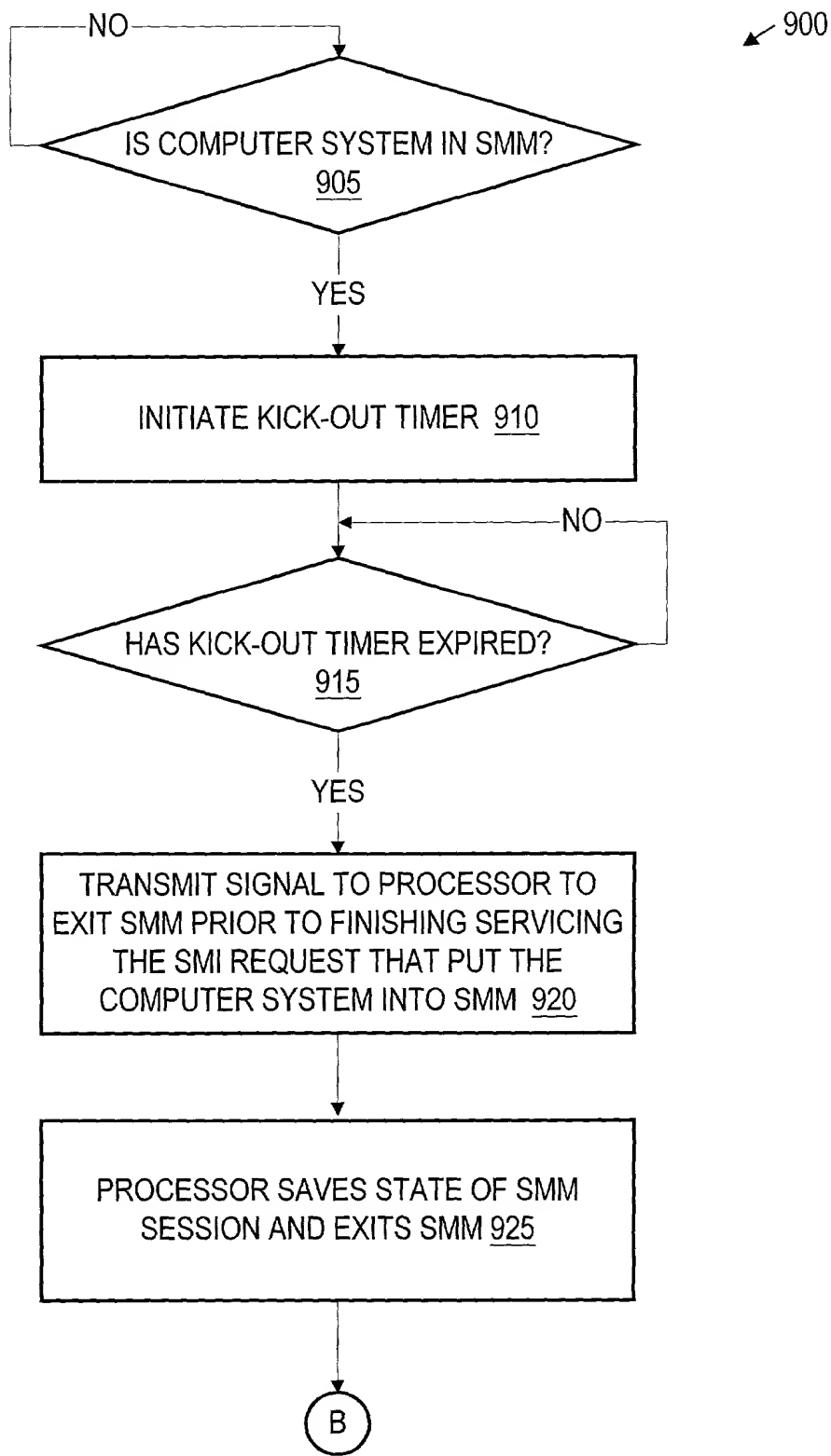


Fig. 10A

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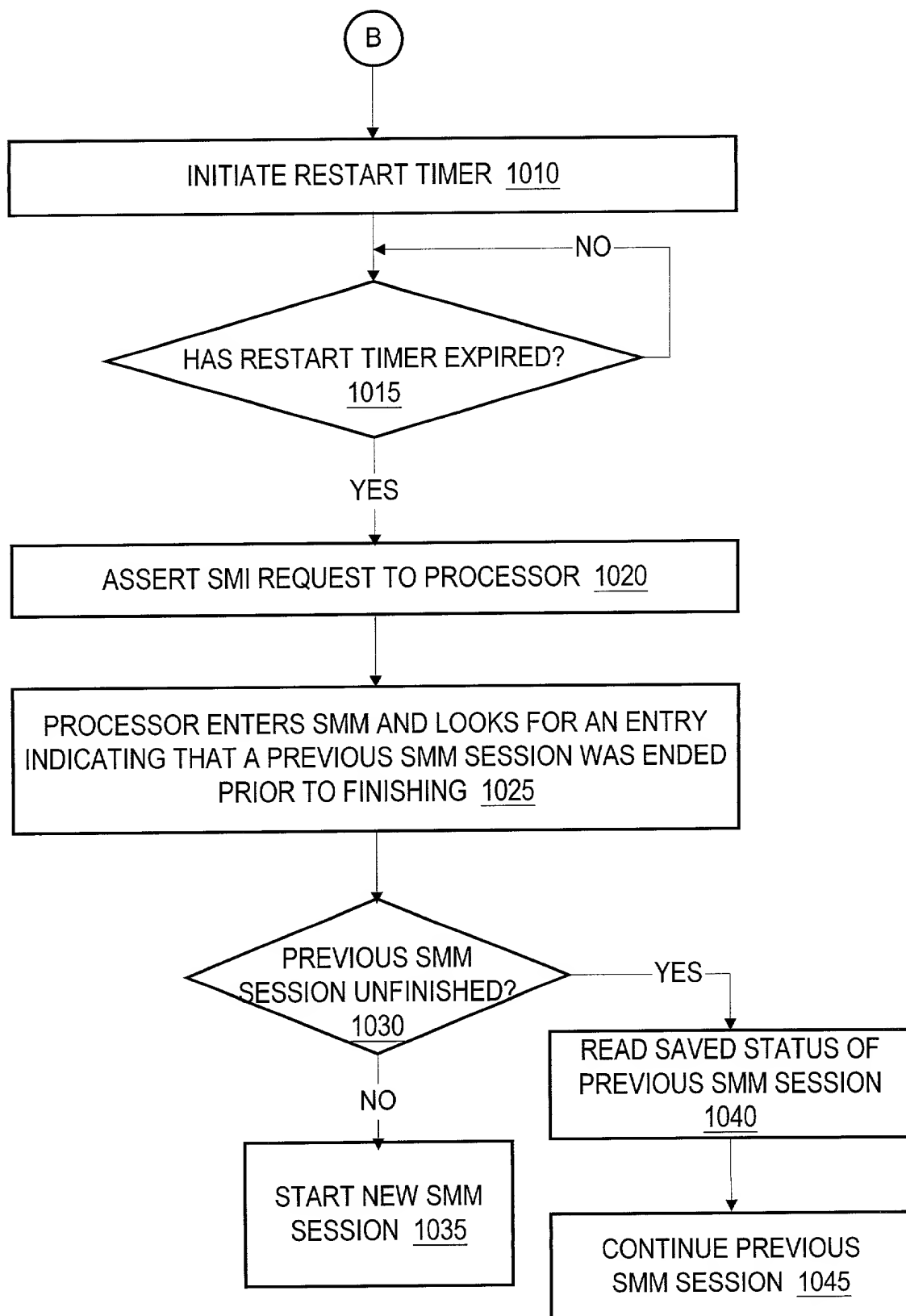


Fig. 10B

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1100A

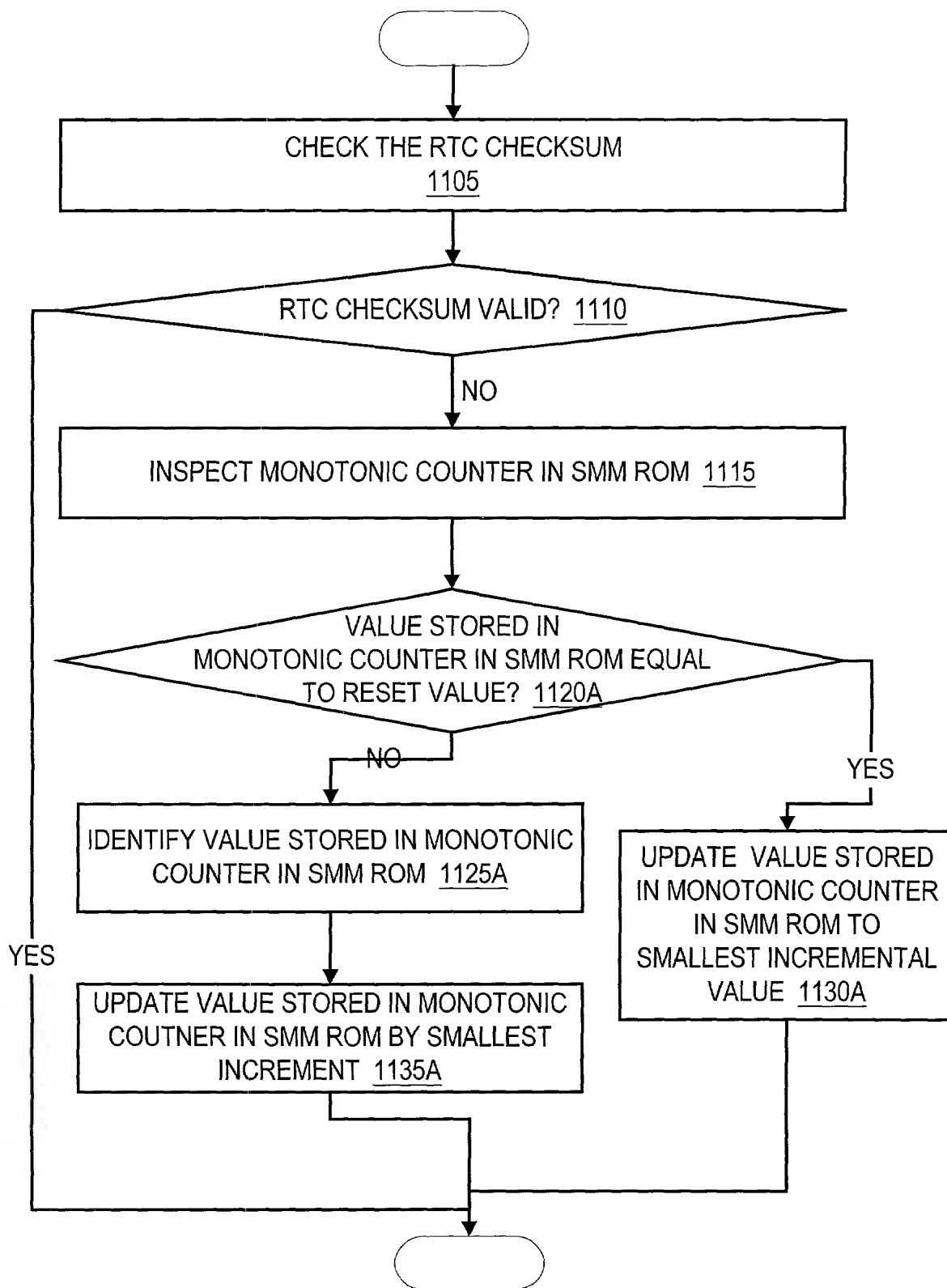


Fig. 11A

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1100B

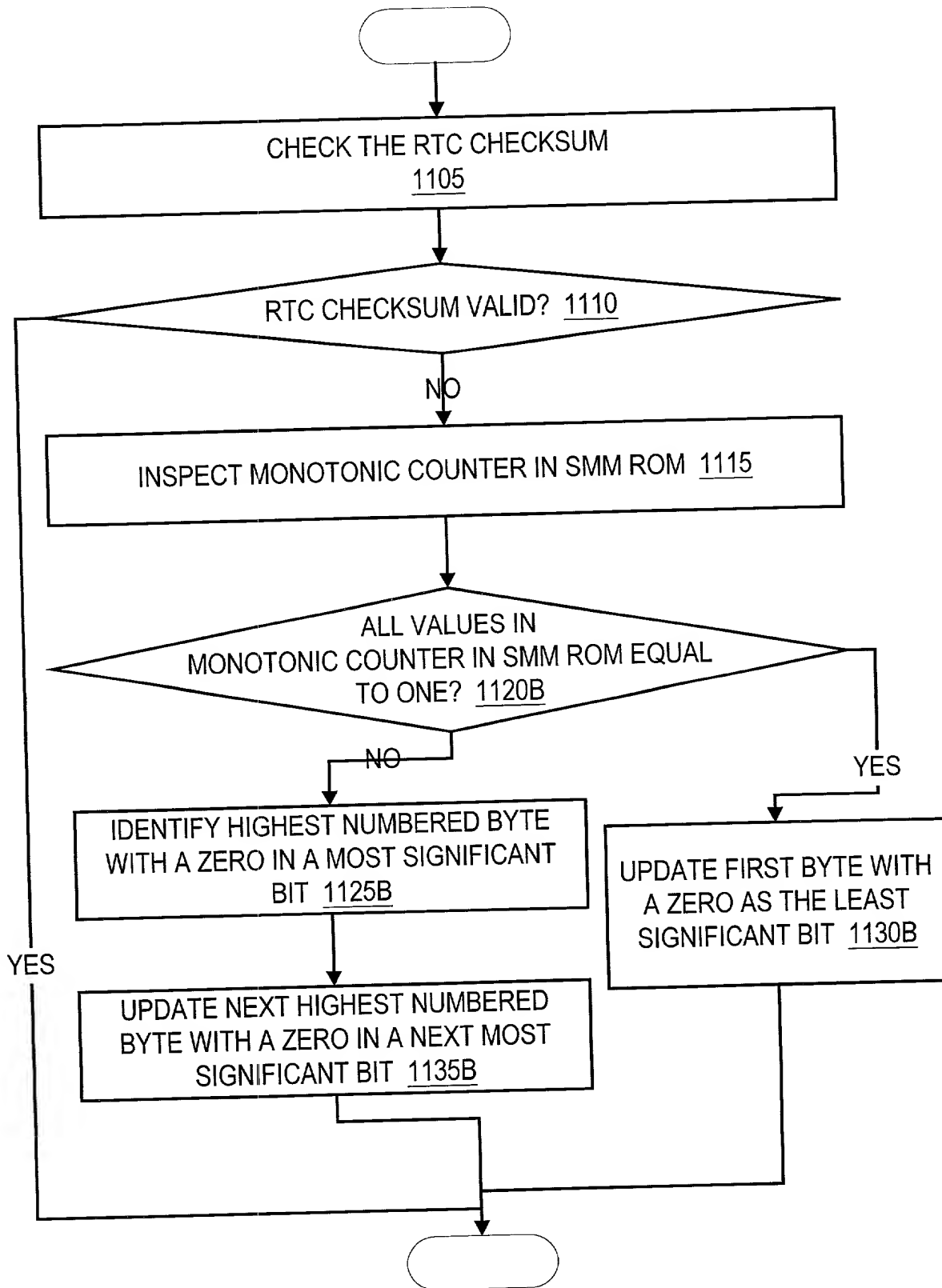


Fig. 11B

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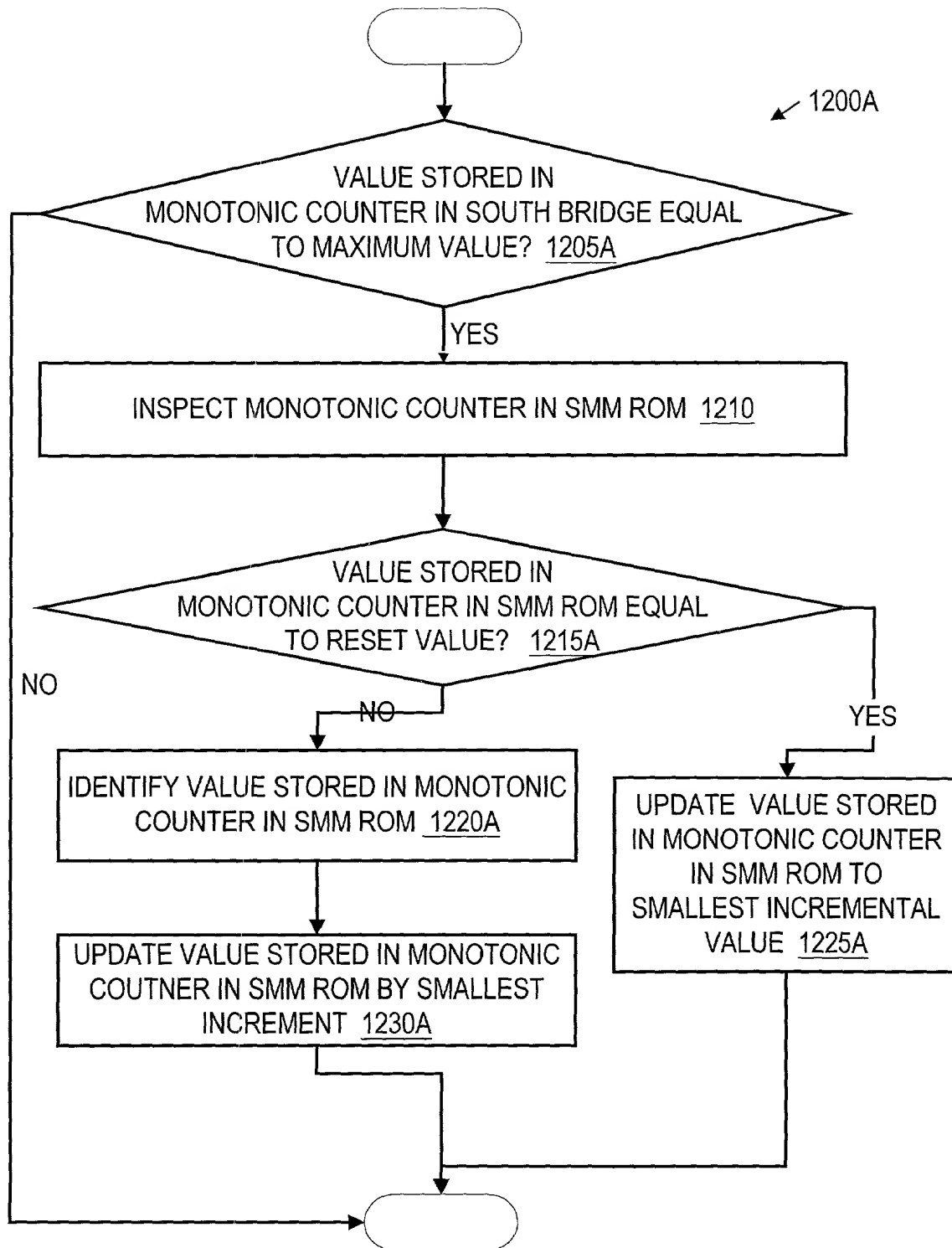


Fig. 12A

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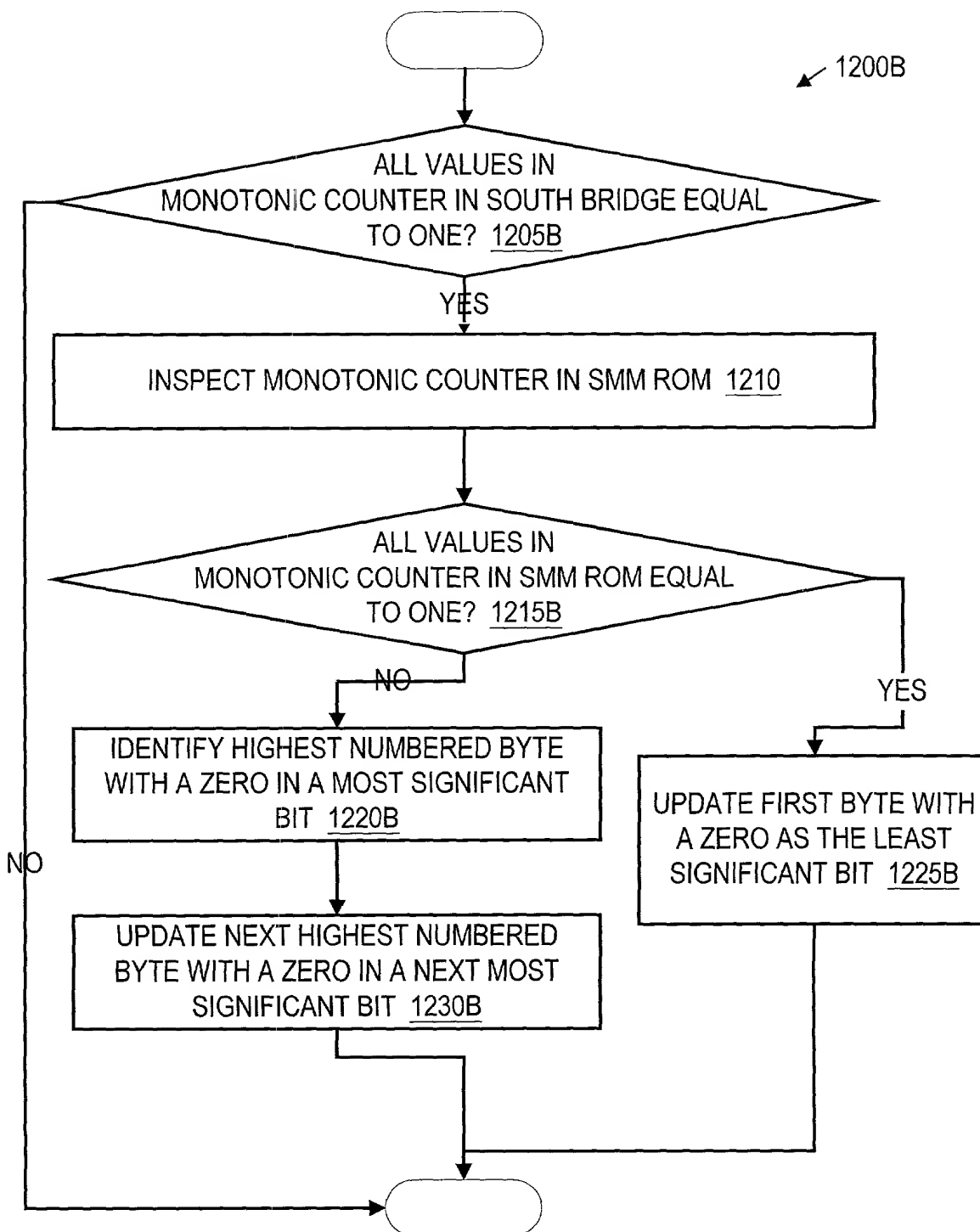


Fig. 12B

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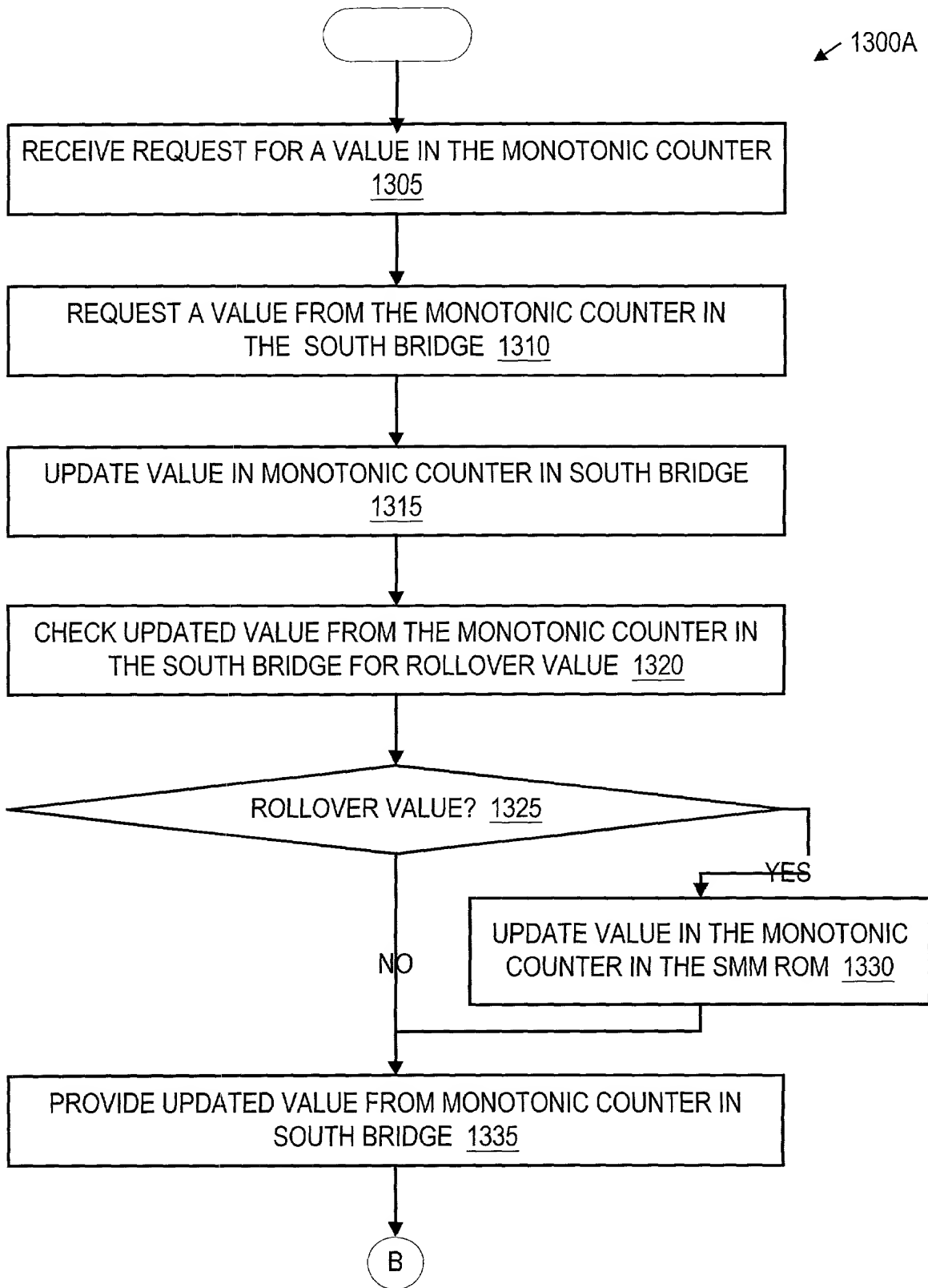


Fig. 13A

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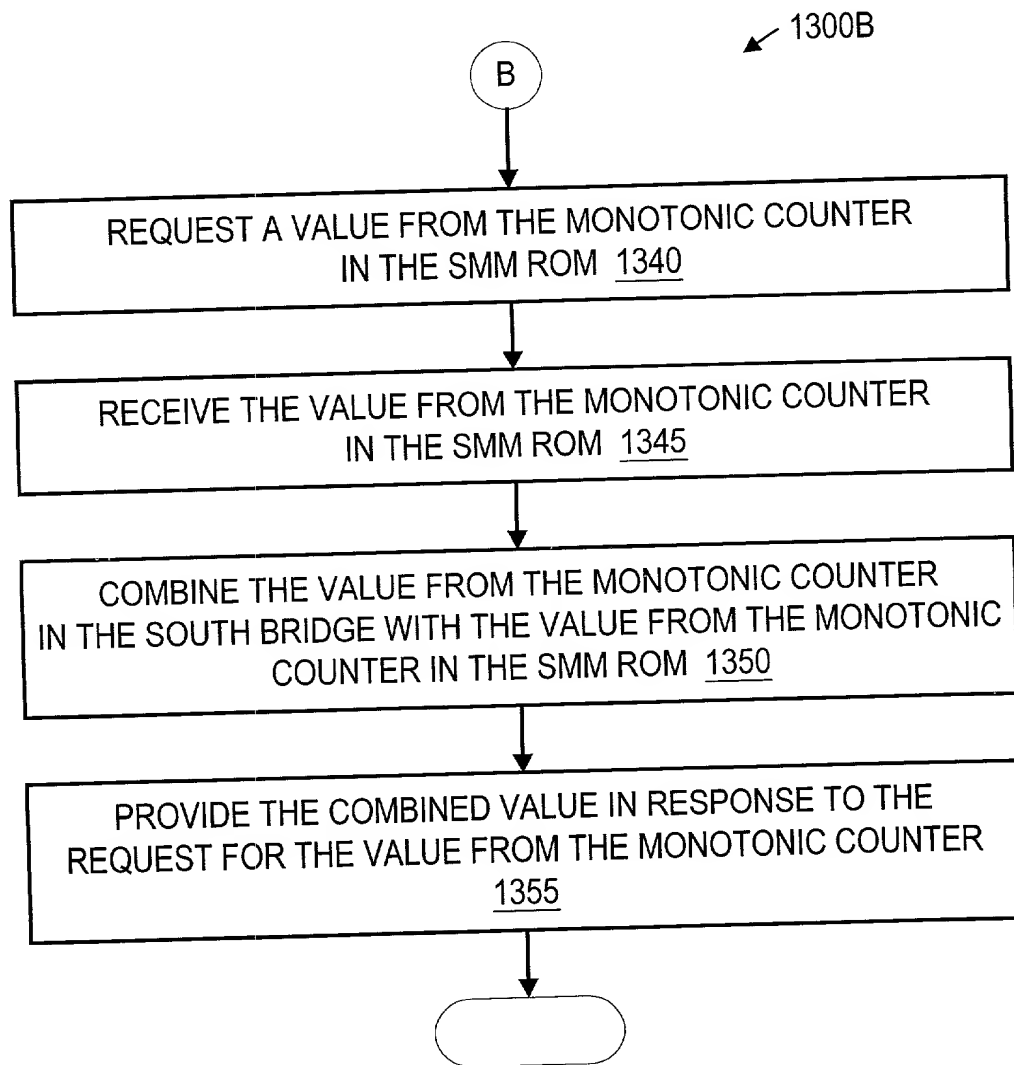


Fig. 13B

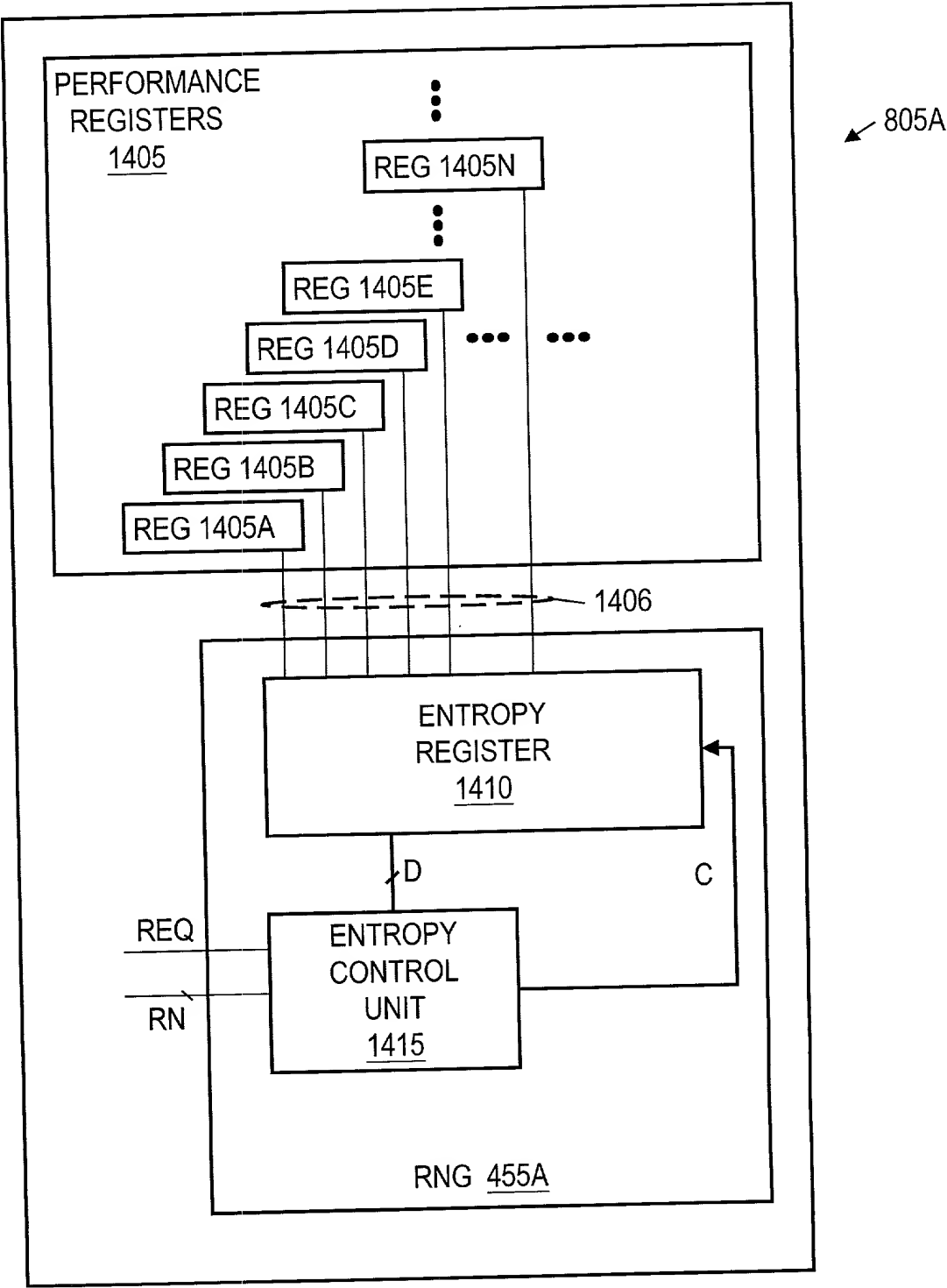


Fig. 14A

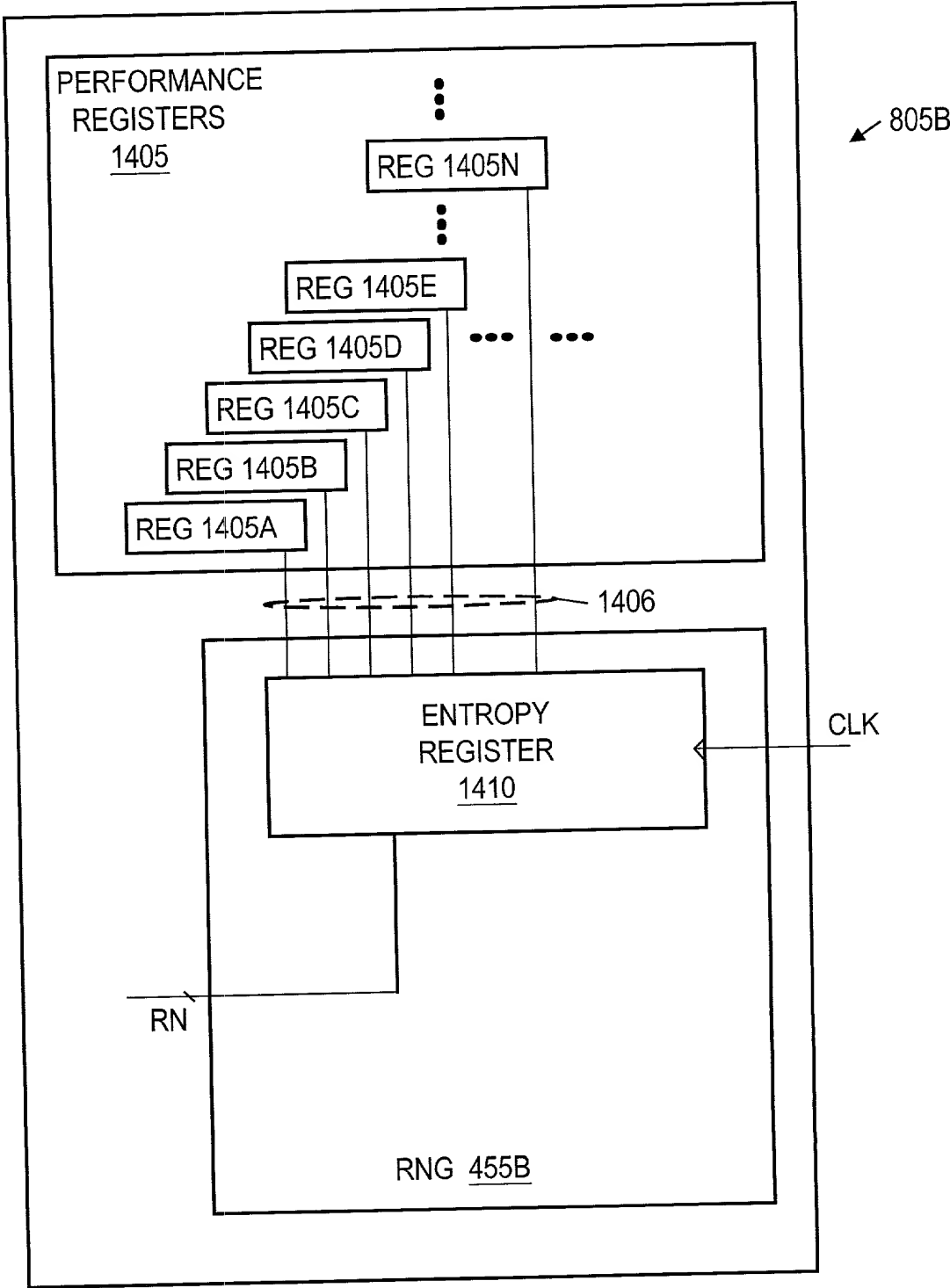


Fig. 14B

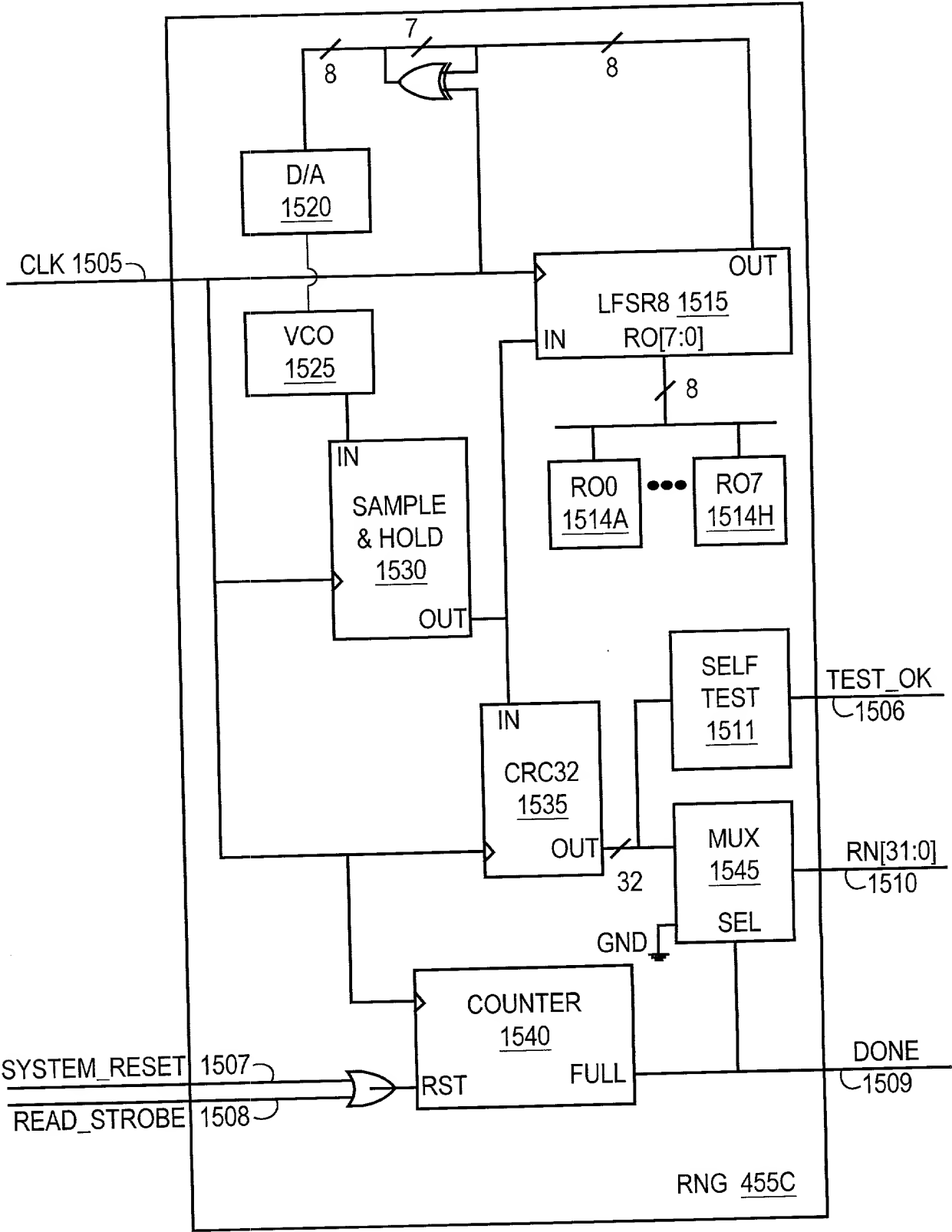


Fig. 15

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1600A

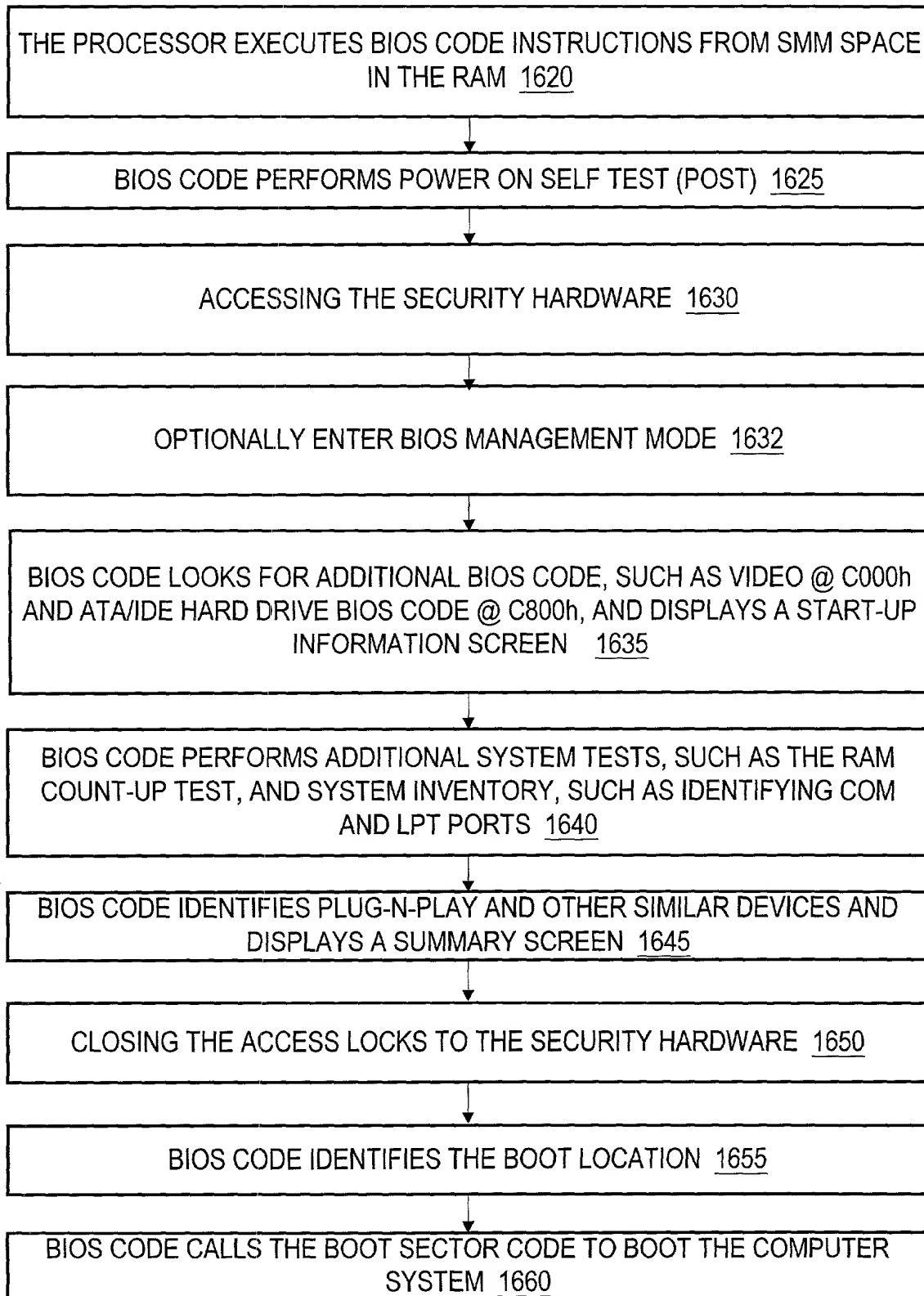


Fig. 16A

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1600B

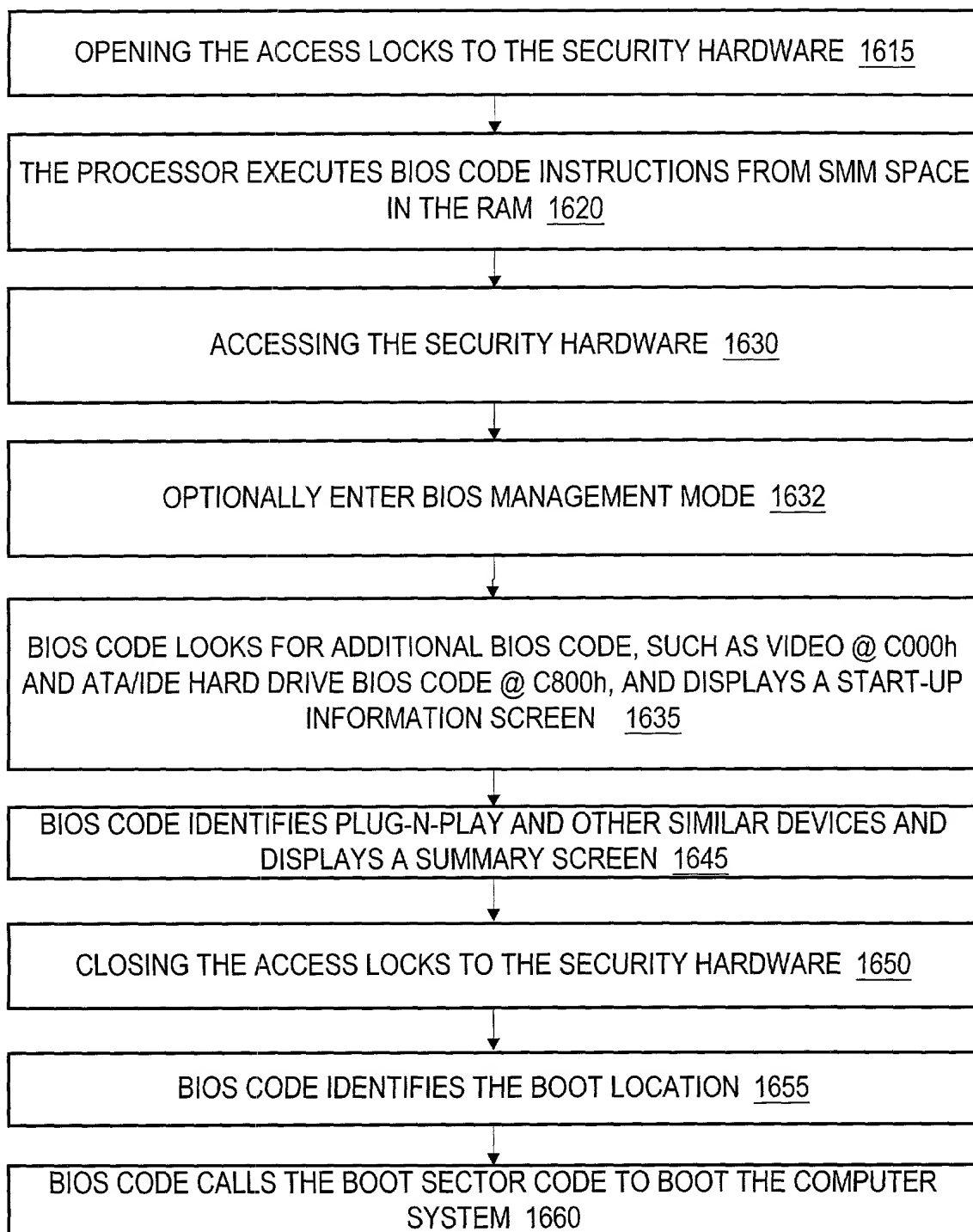


Fig. 16B

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1600C

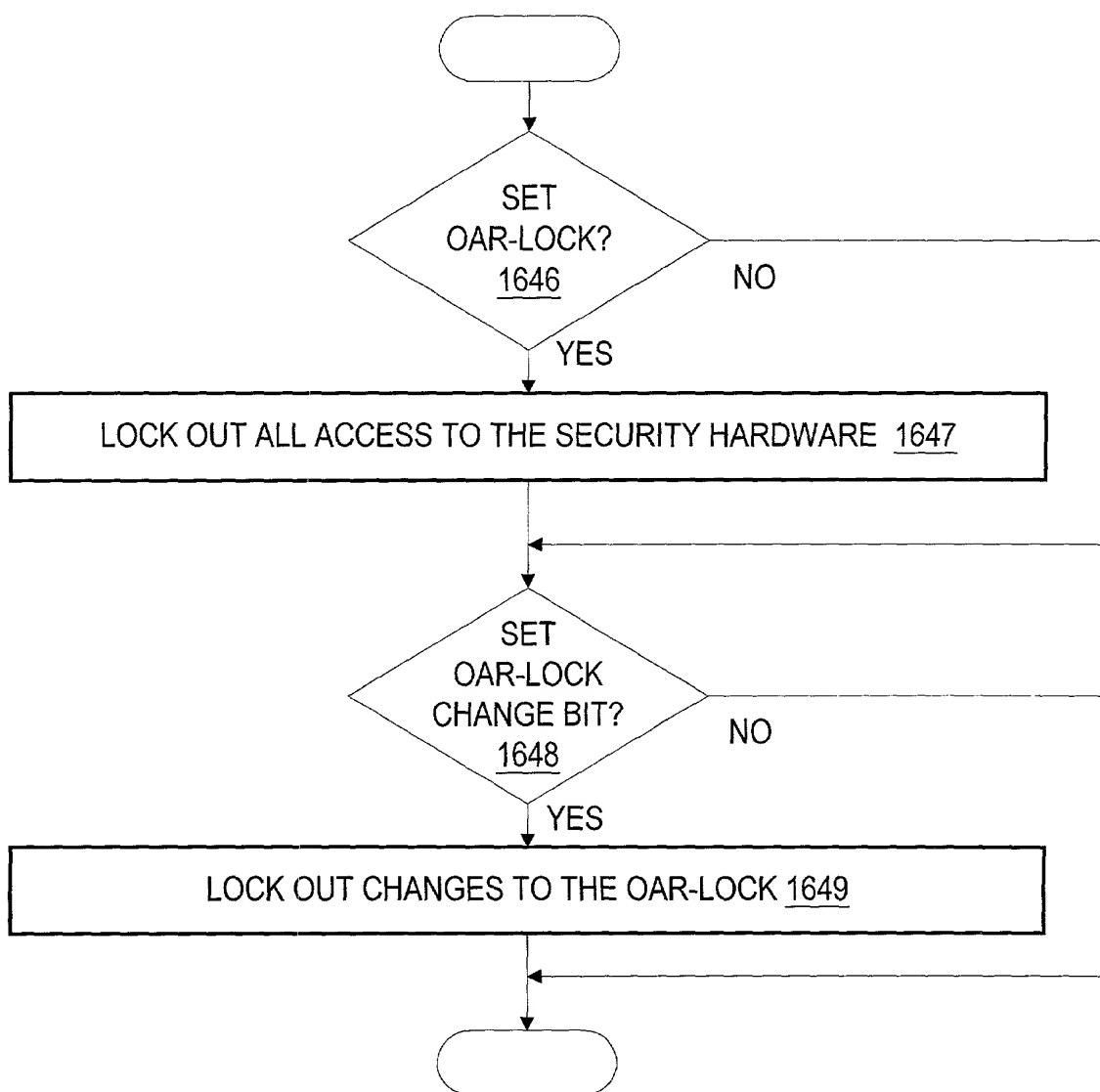


Fig. 16C

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1600D

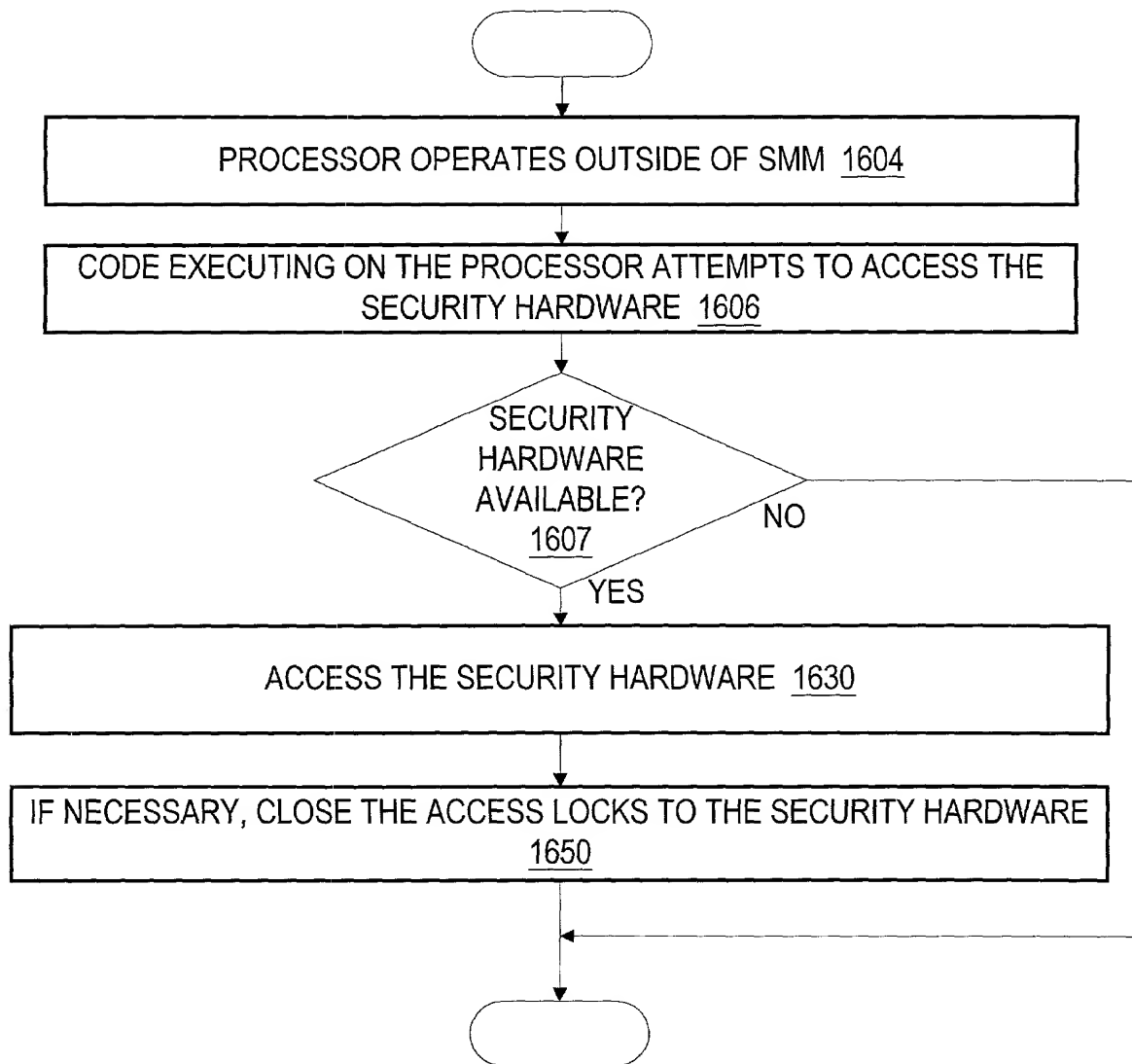


Fig. 16D

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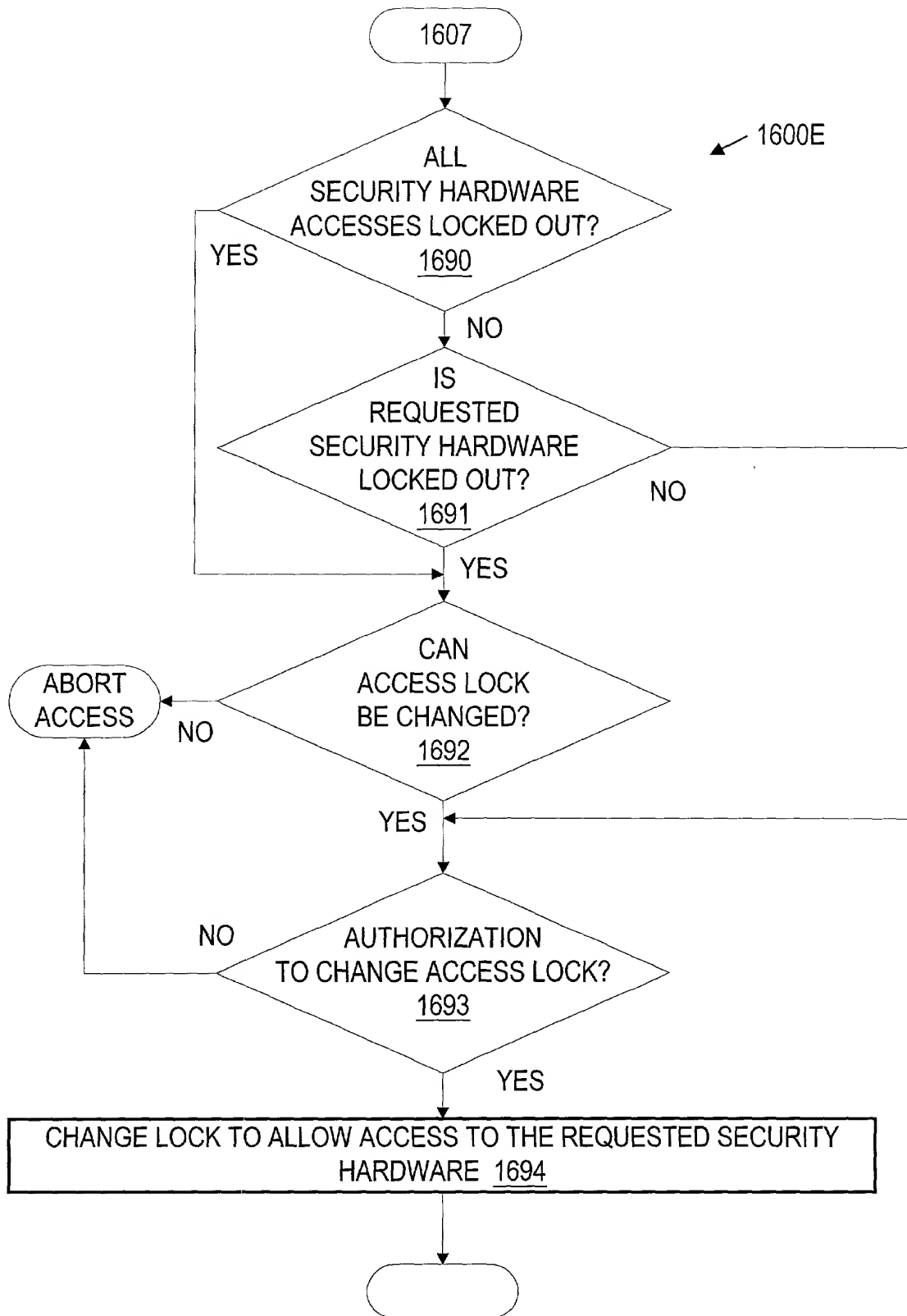


Fig. 16E

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1600F

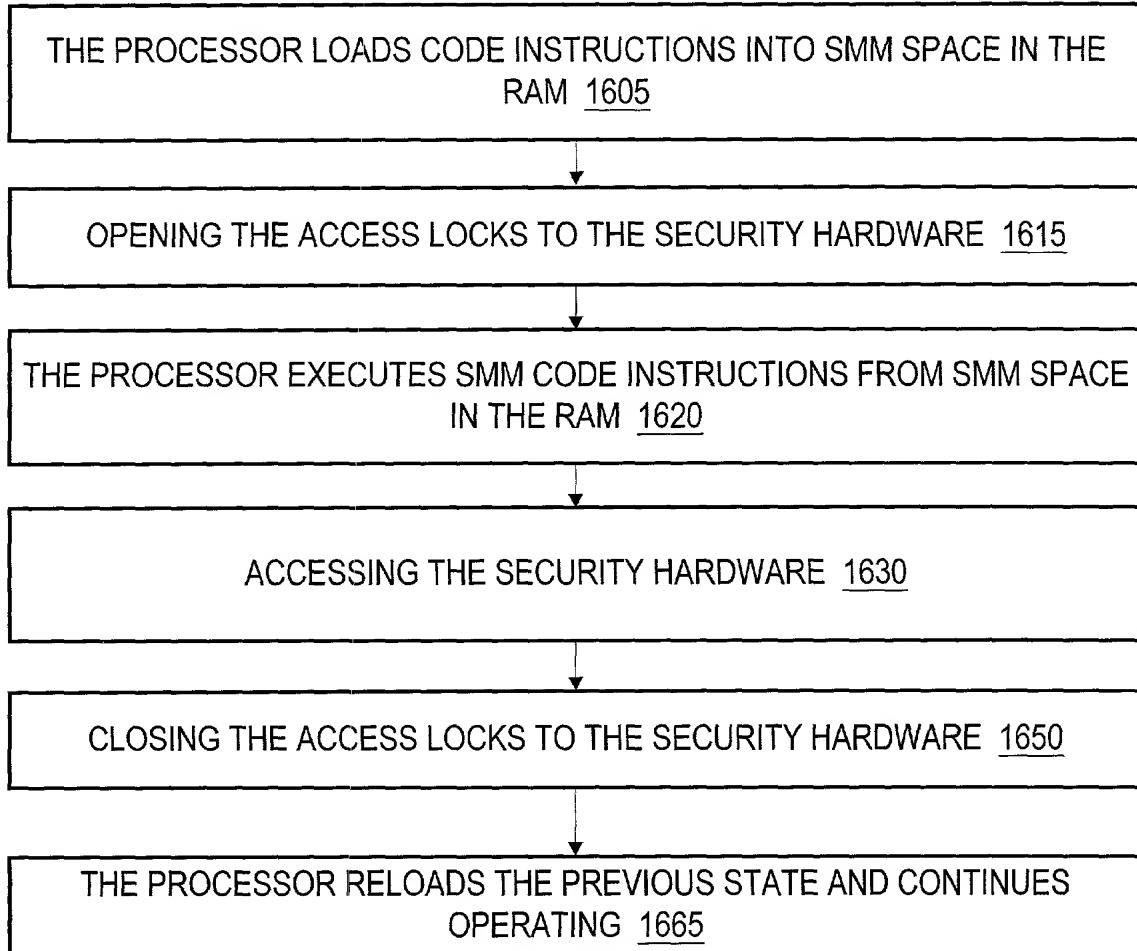


Fig. 16F

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1600G

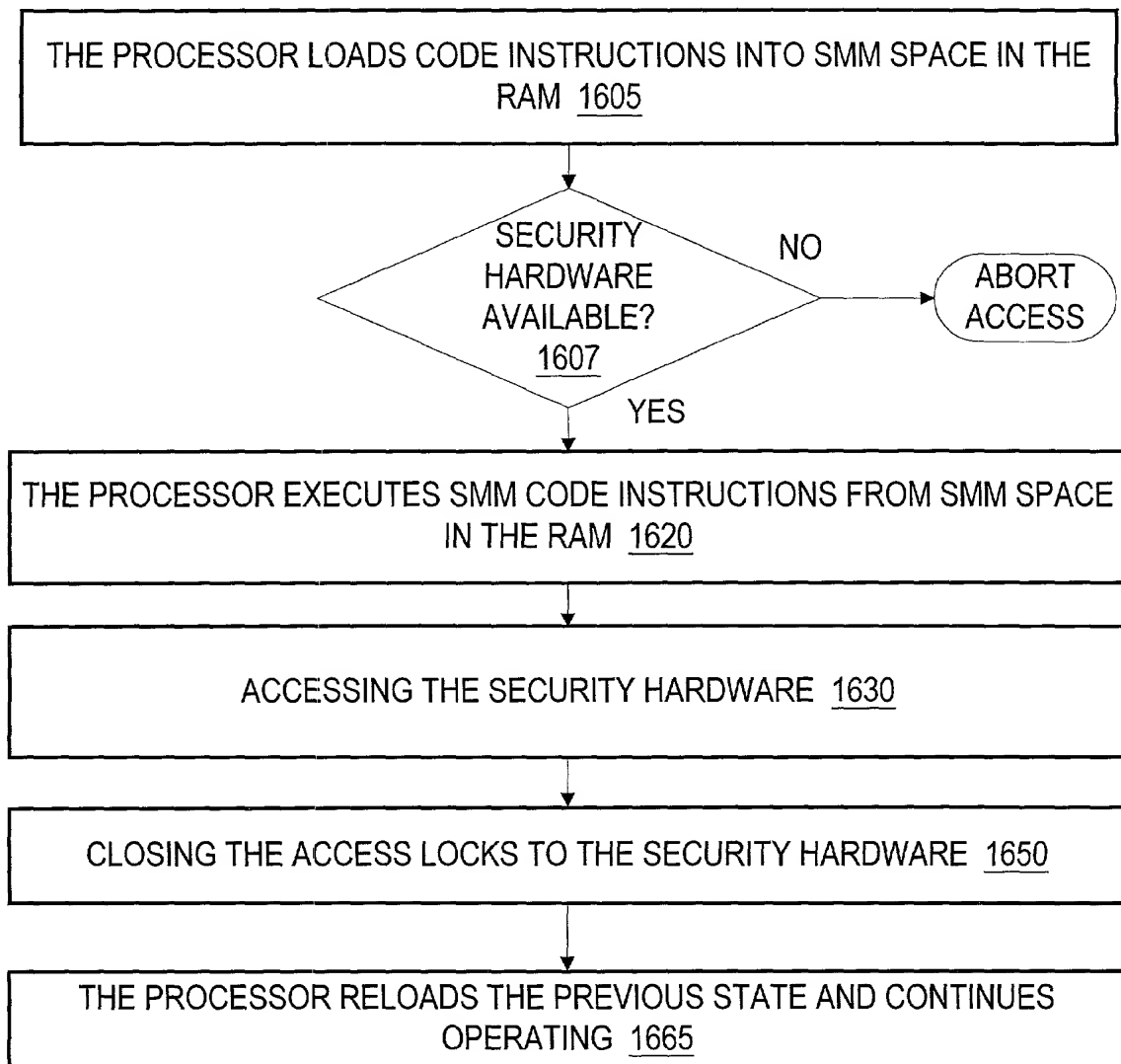


Fig. 16G

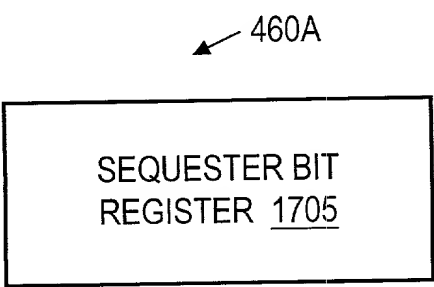


Fig. 17A

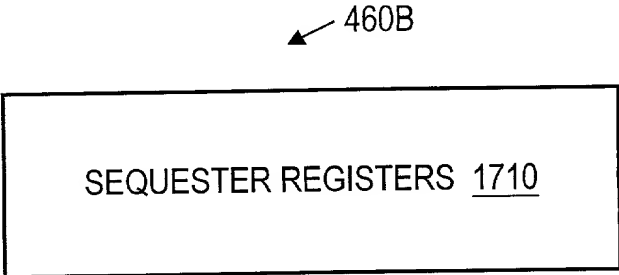


Fig. 17B

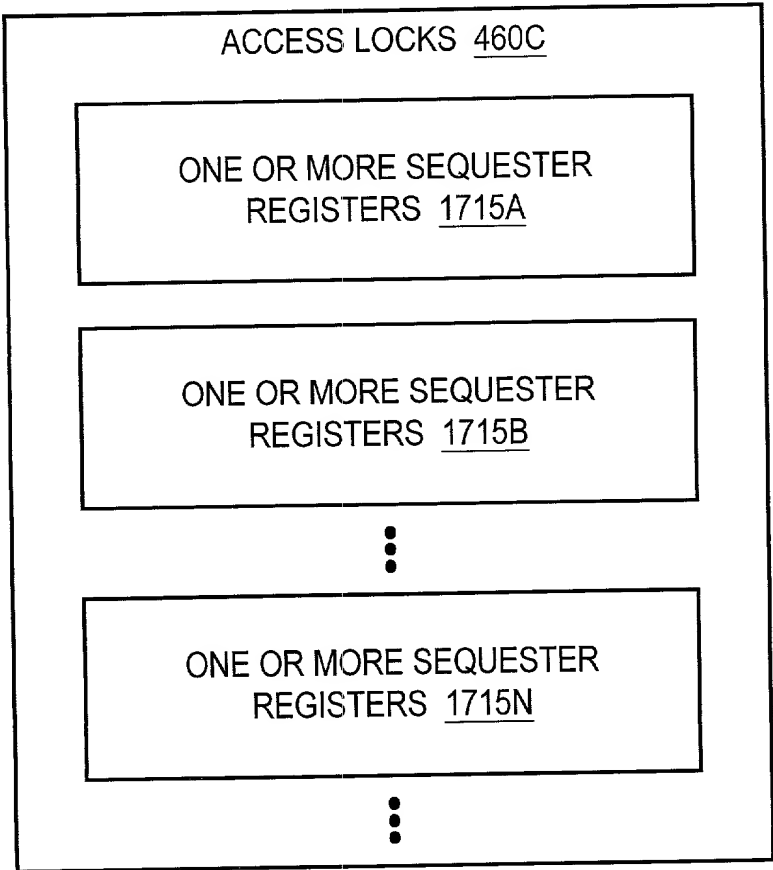


Fig. 17C

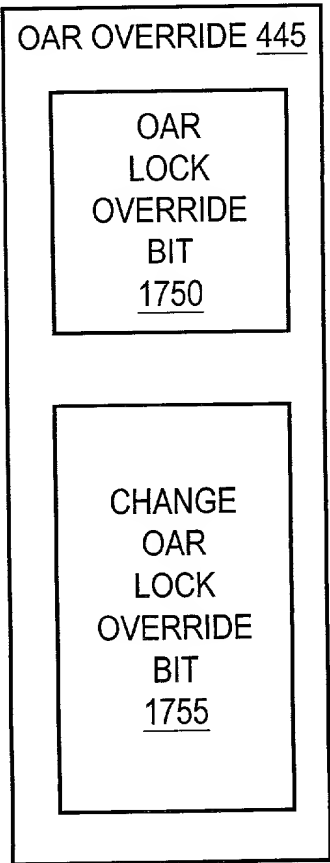


Fig. 17D

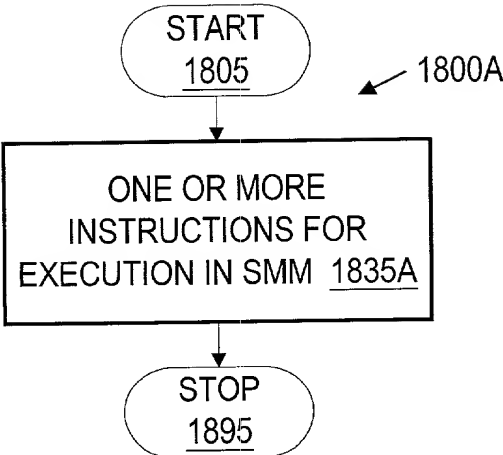


Fig. 18A
PRIOR ART

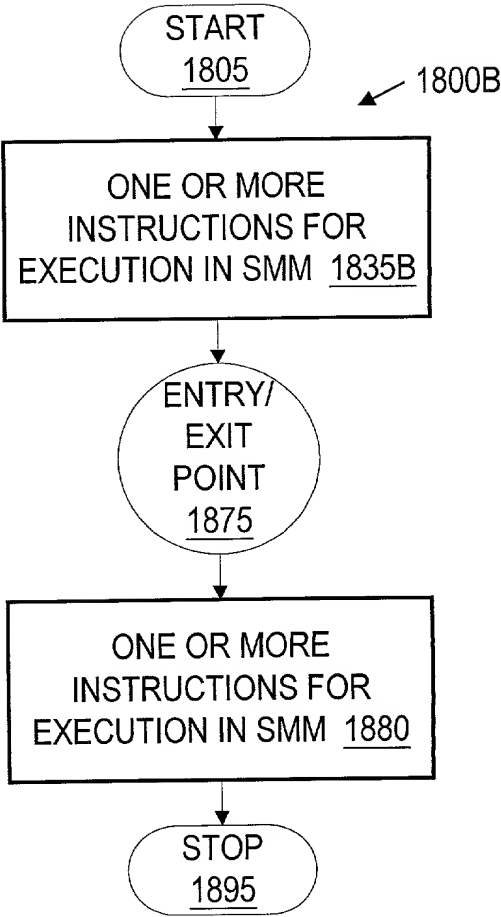


Fig. 18B

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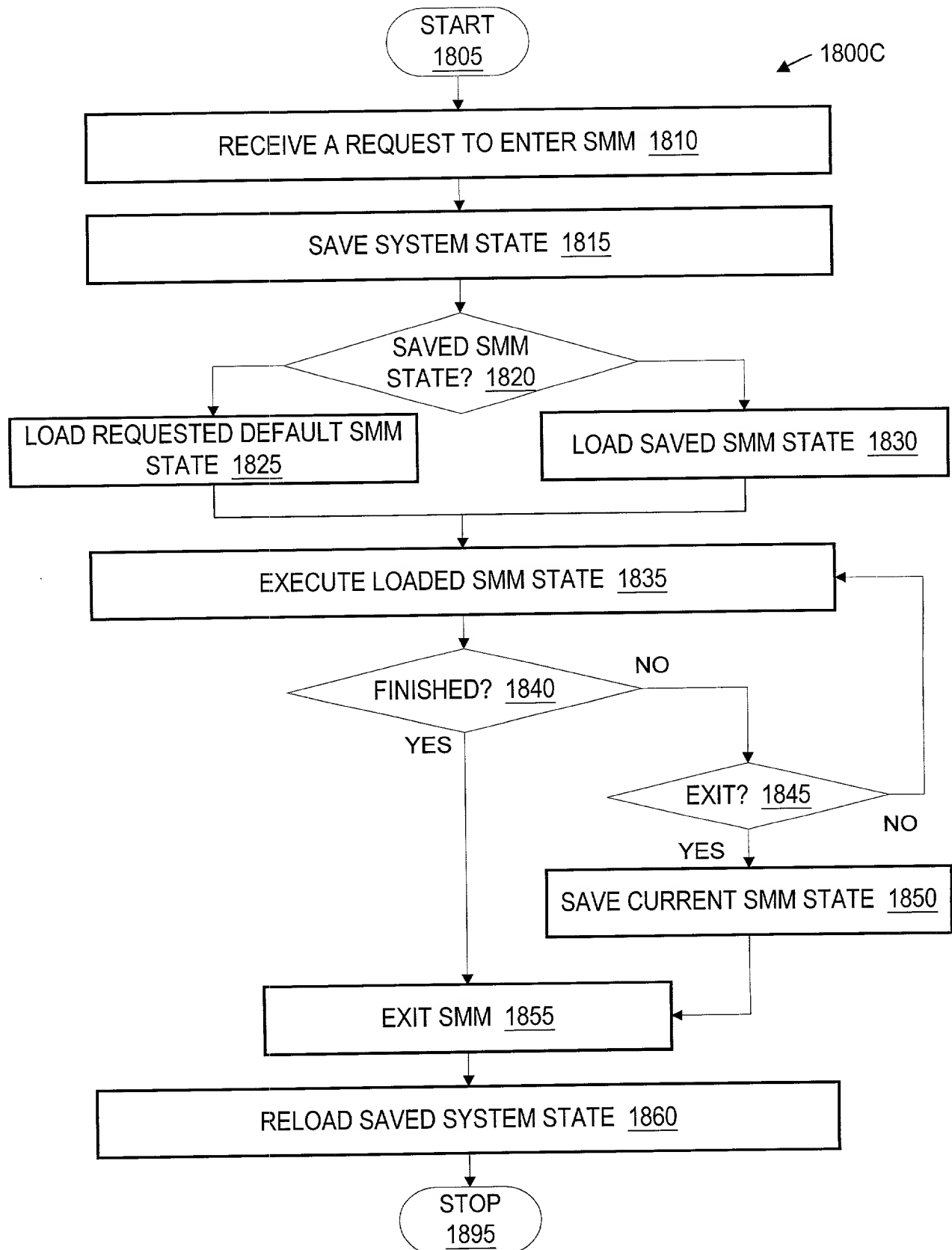


Fig. 18C

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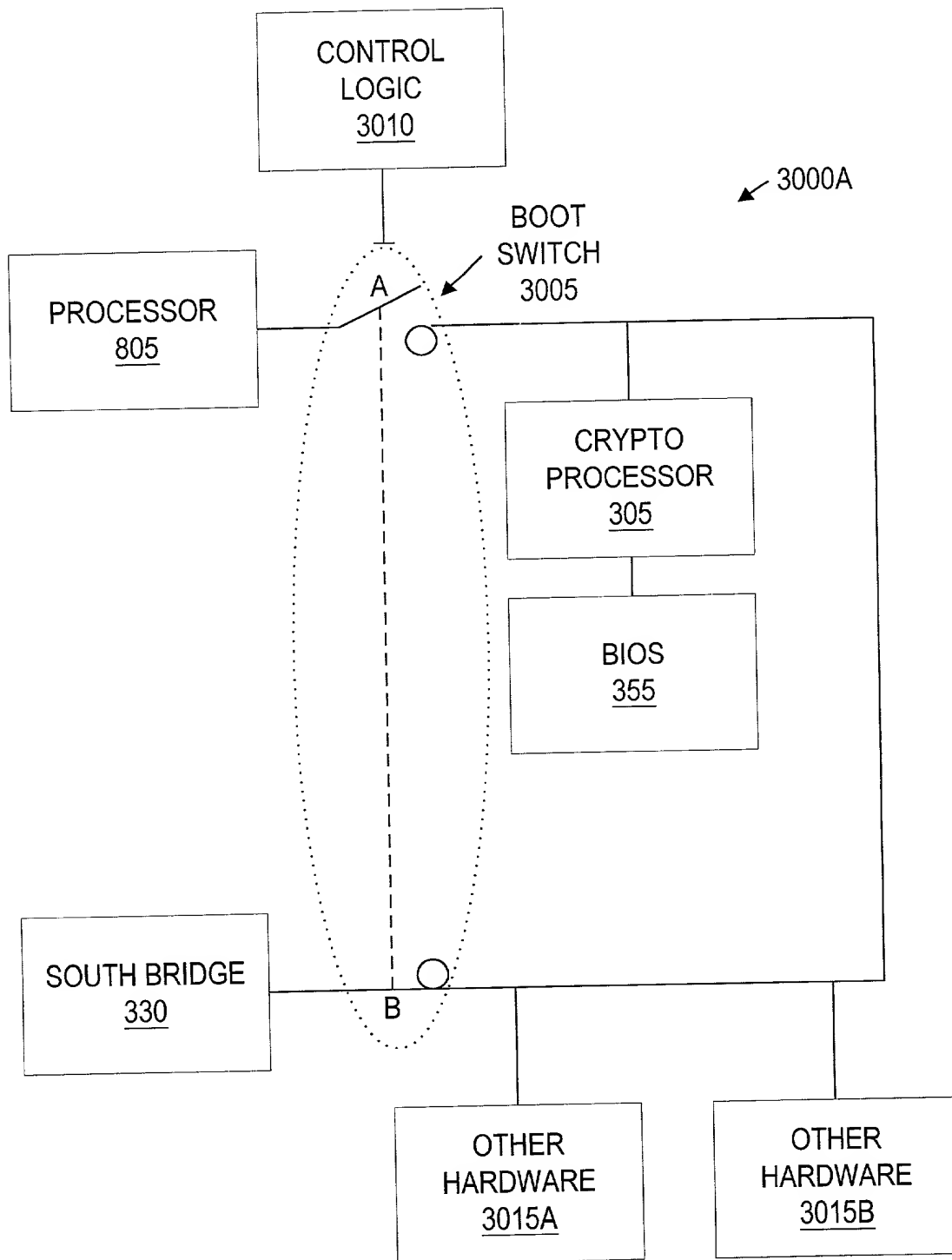


Fig. 19A

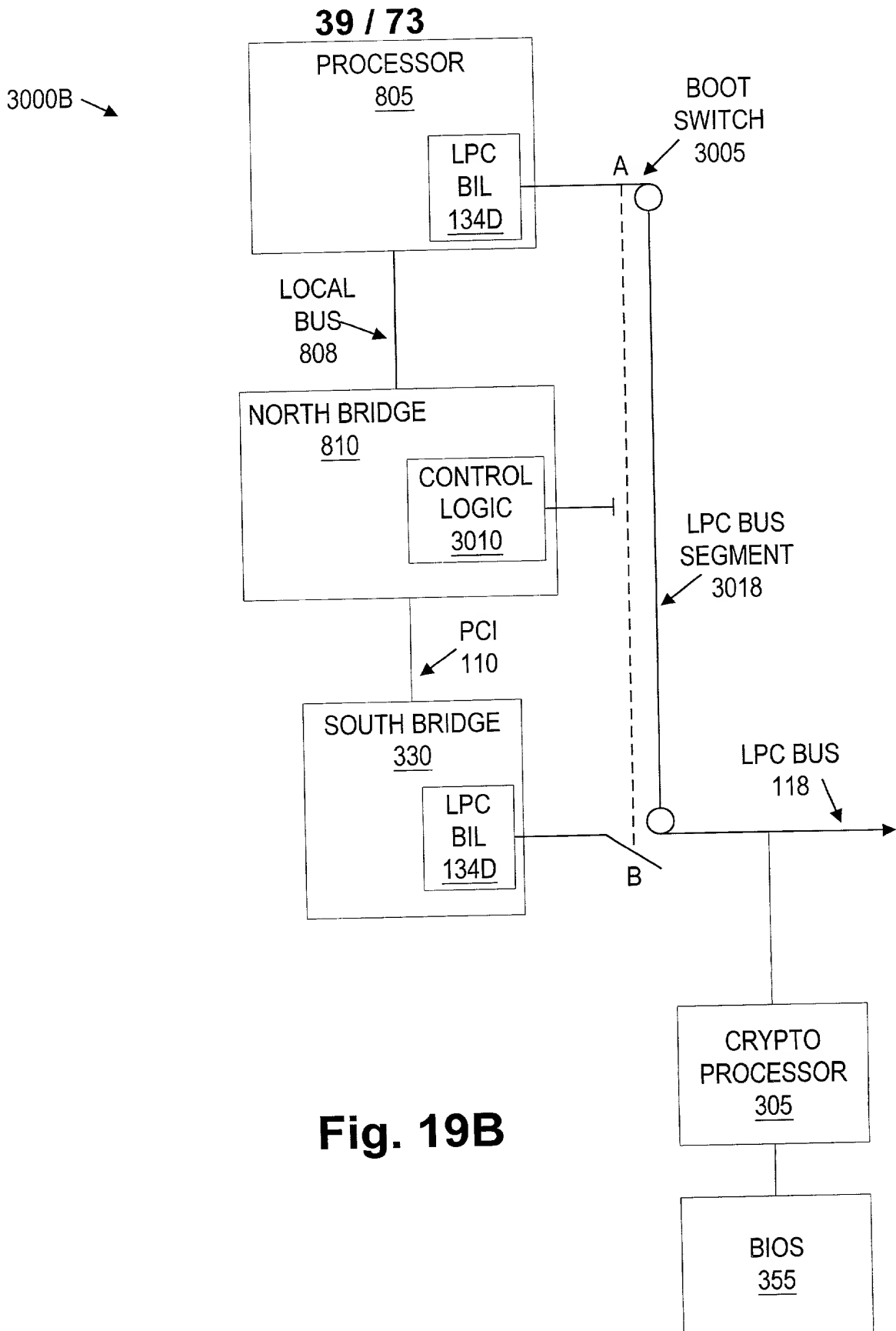


Fig. 19B

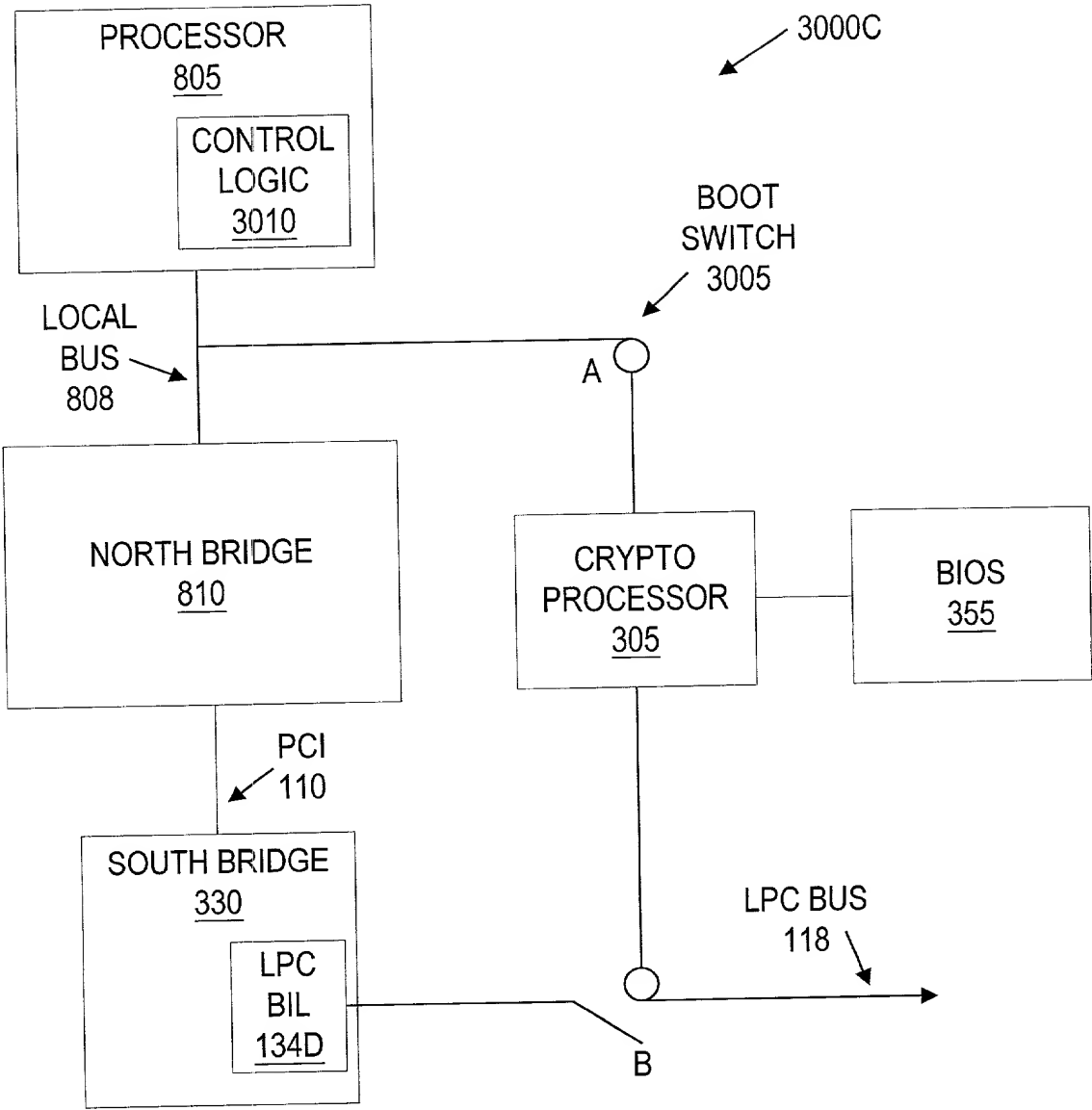


Fig. 19C

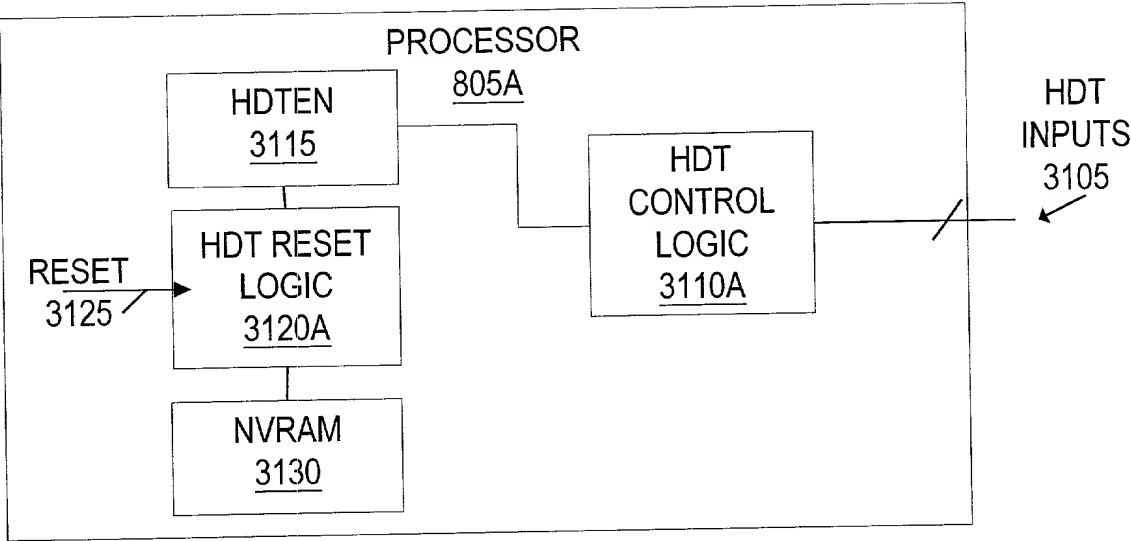


Fig. 20A

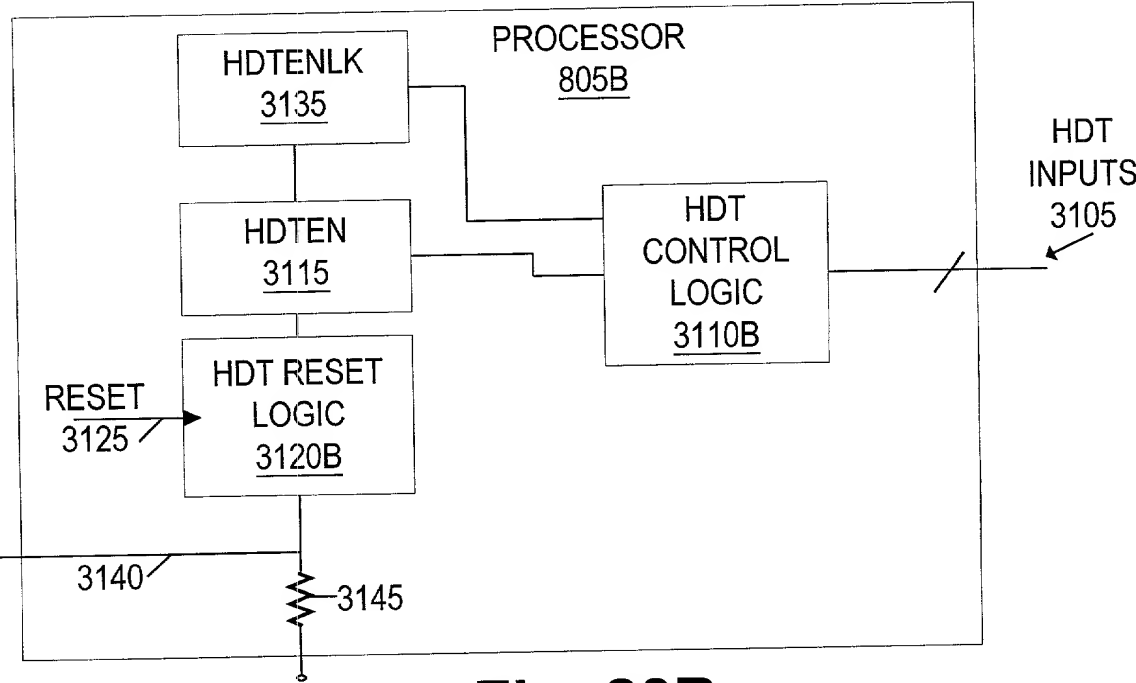


Fig. 20B

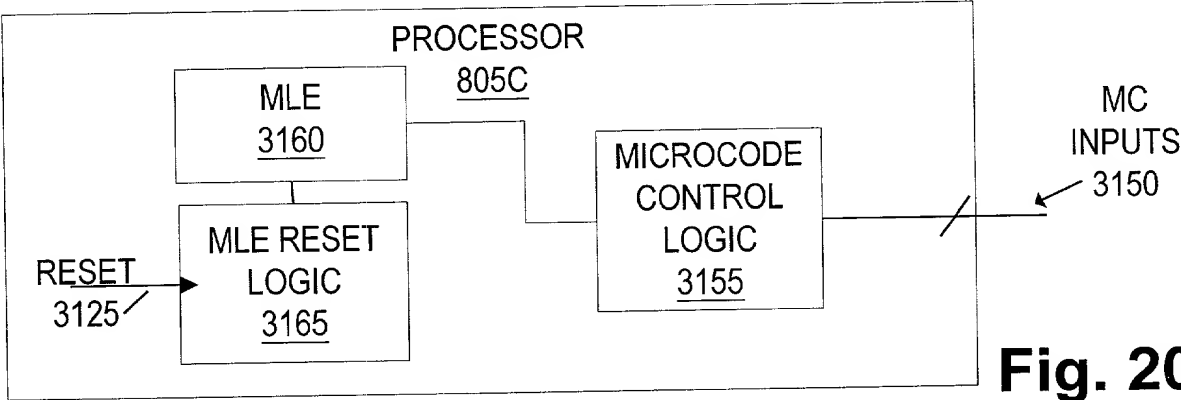


Fig. 20C

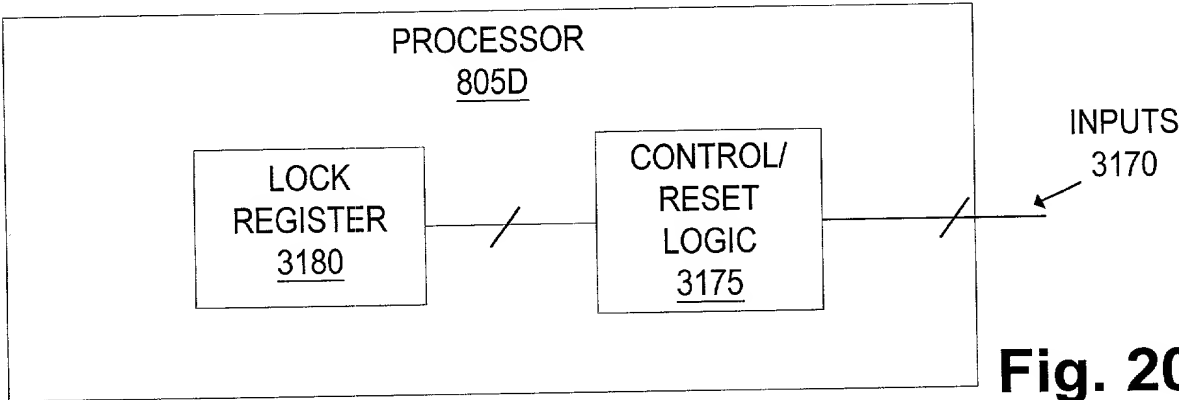


Fig. 20D

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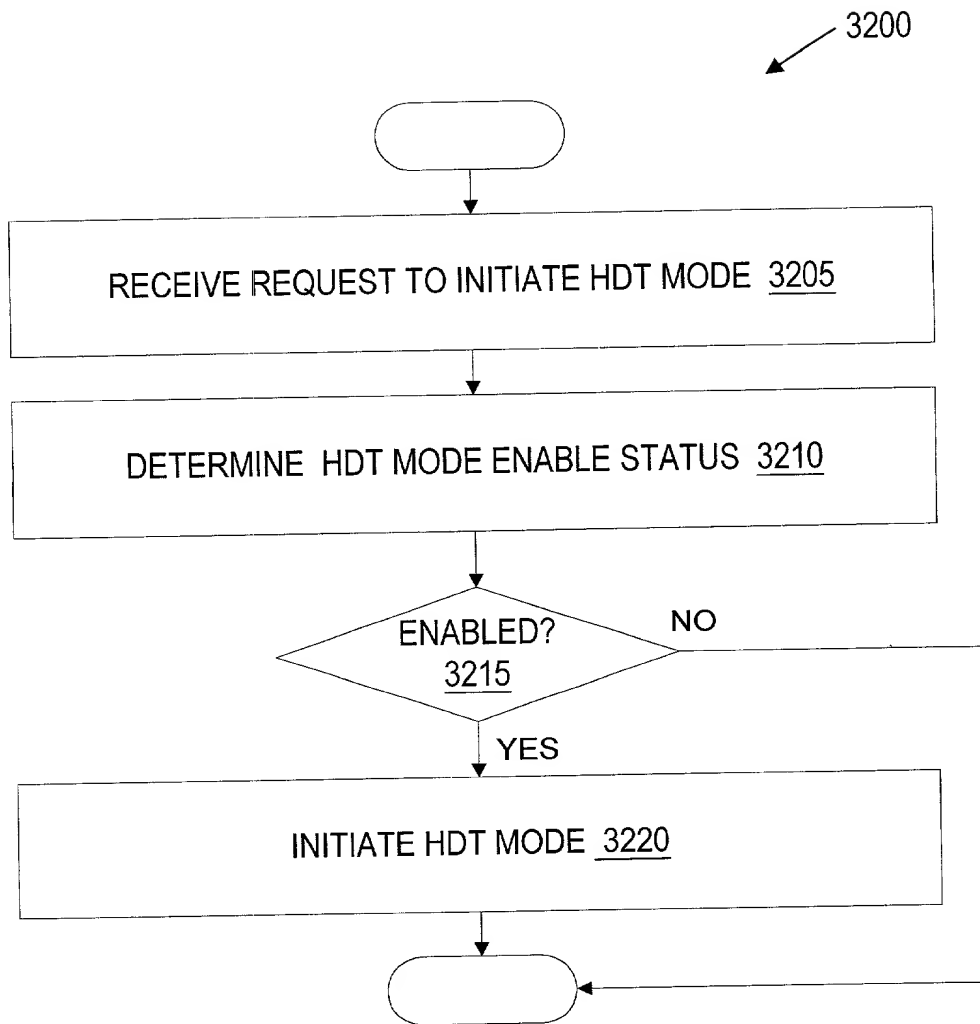


Fig. 21

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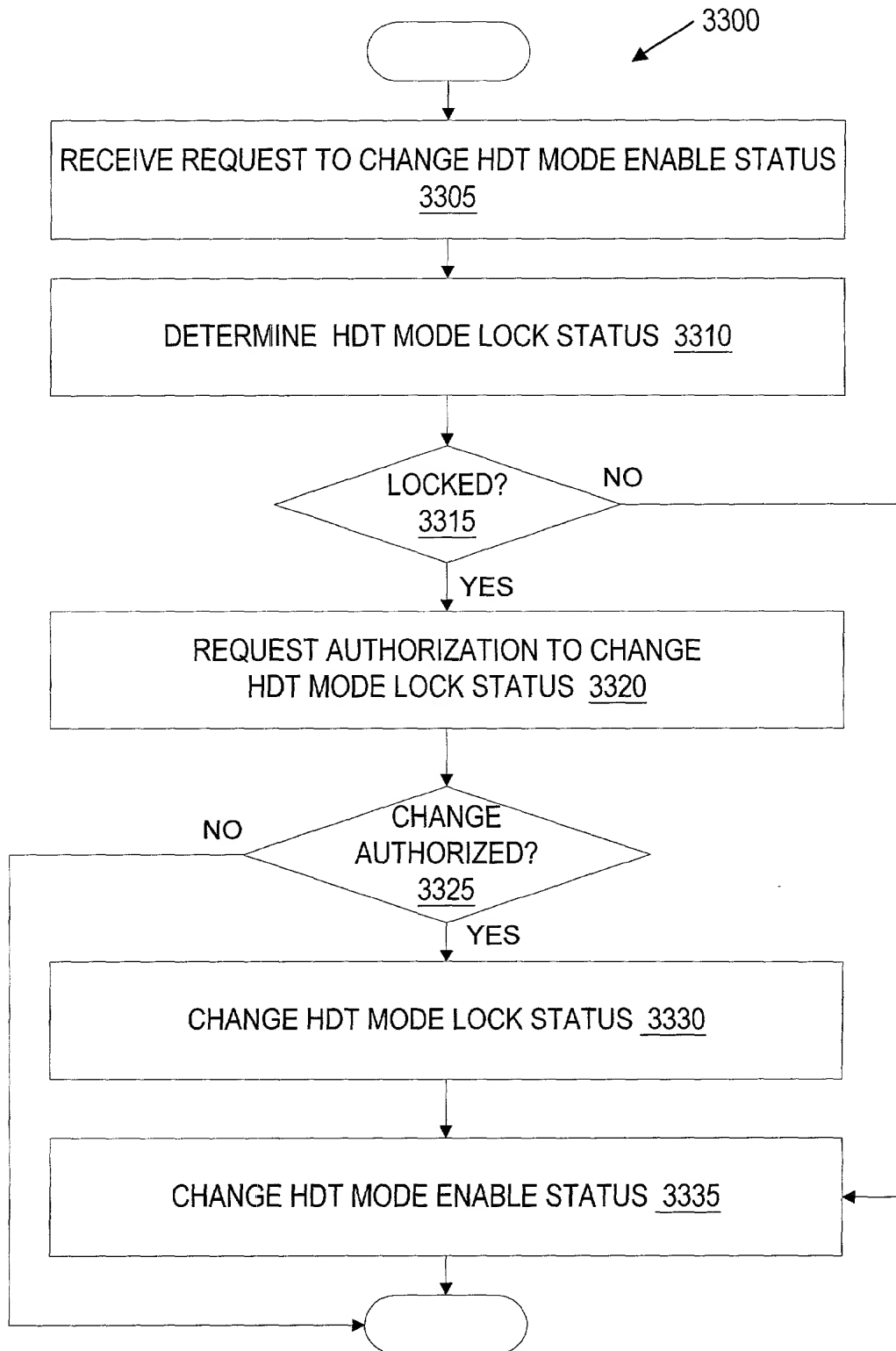


Fig. 22

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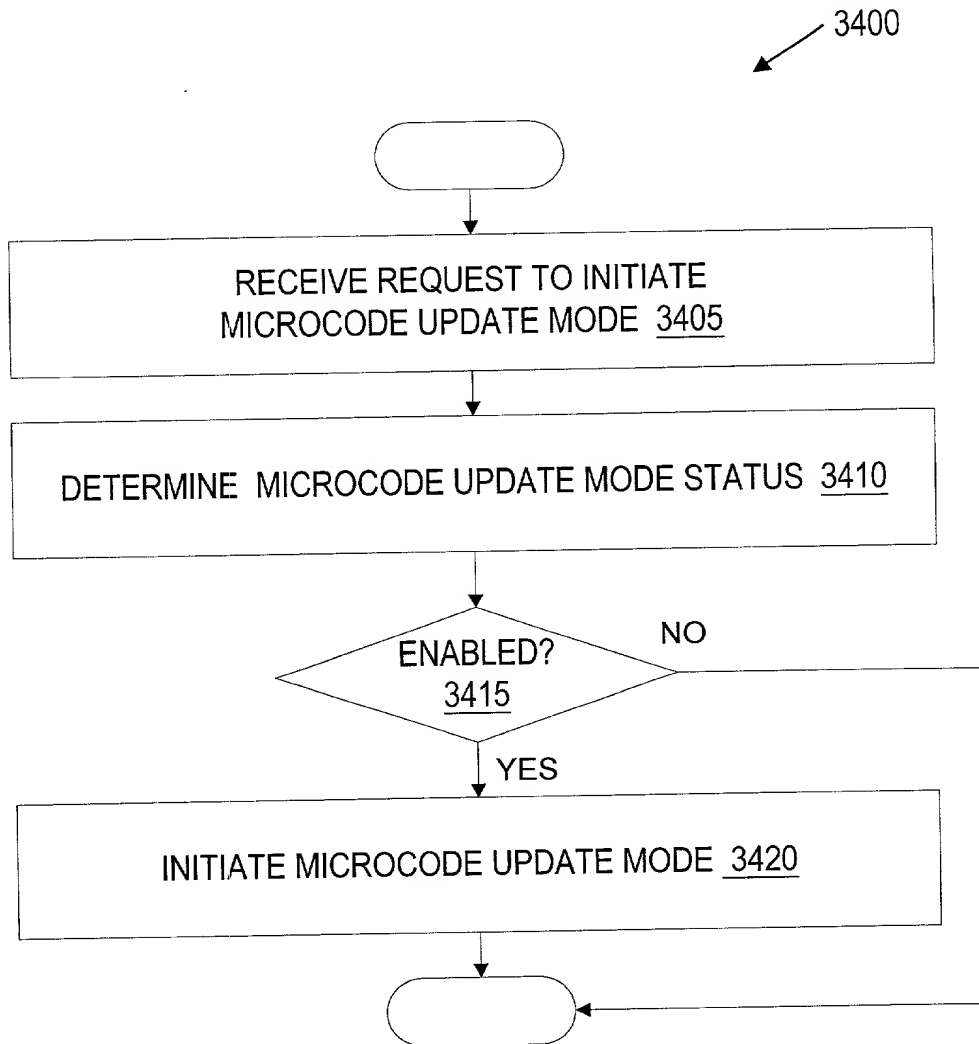


Fig. 23

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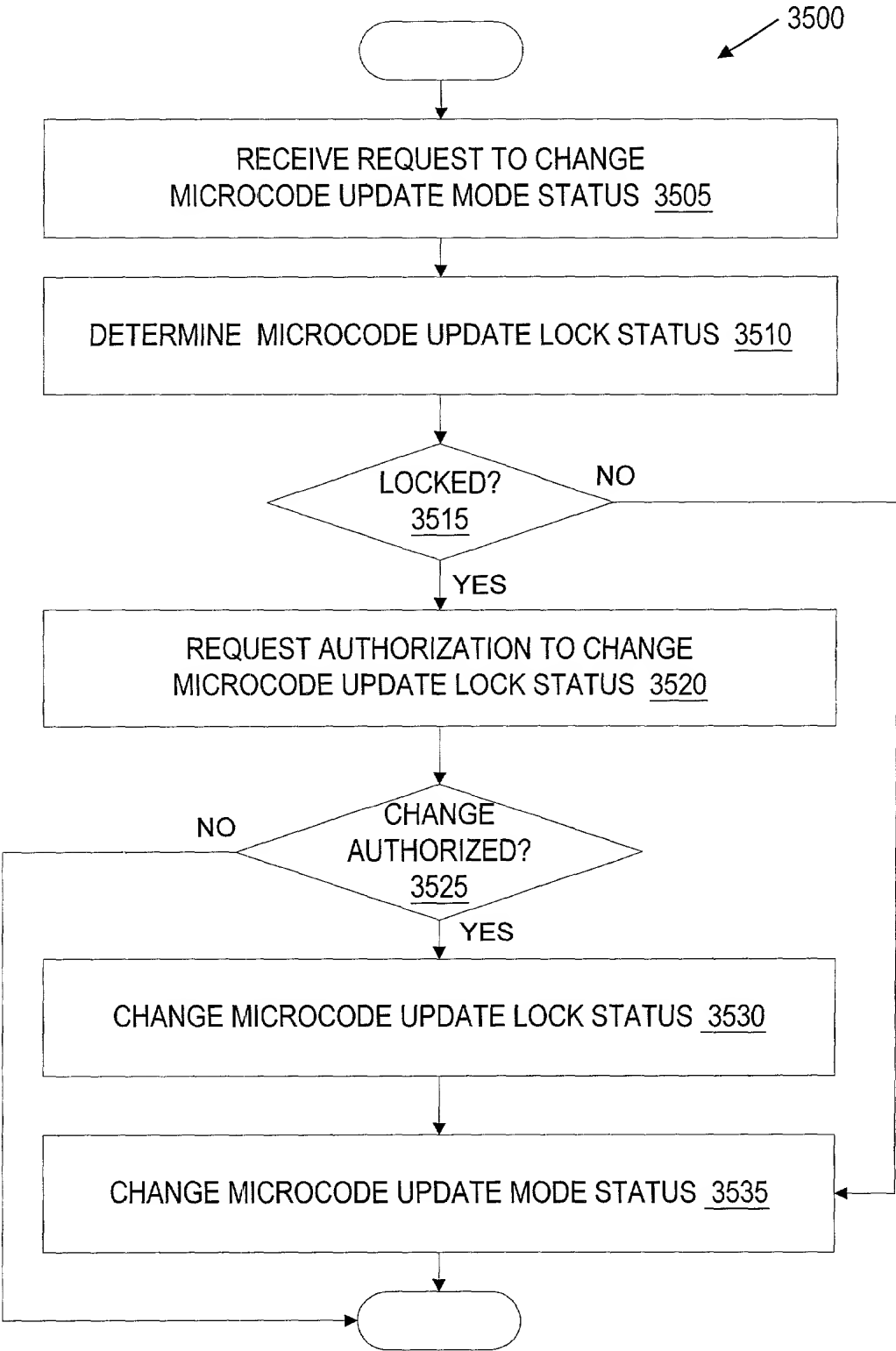
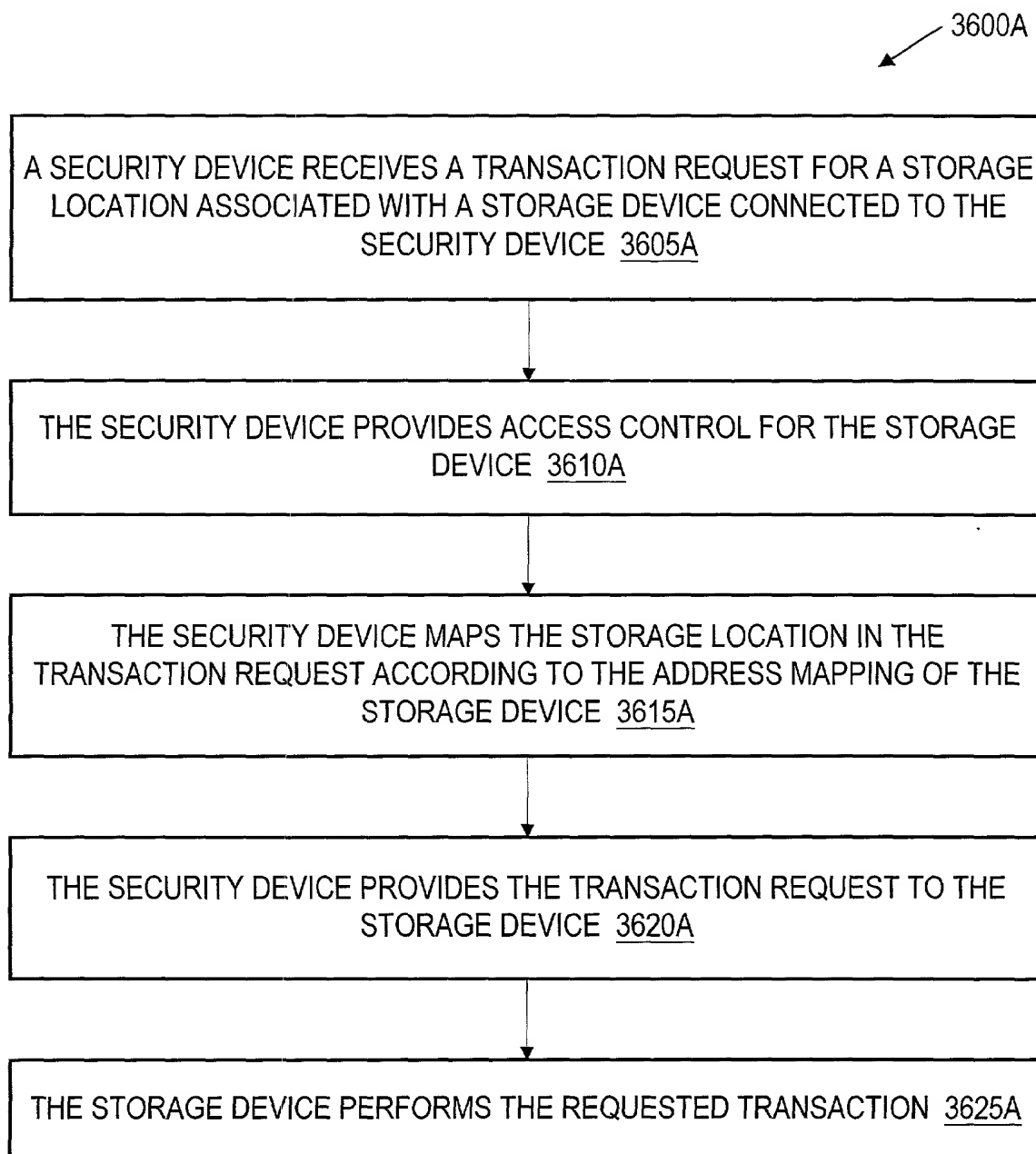


Fig. 24

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**Fig. 25A**

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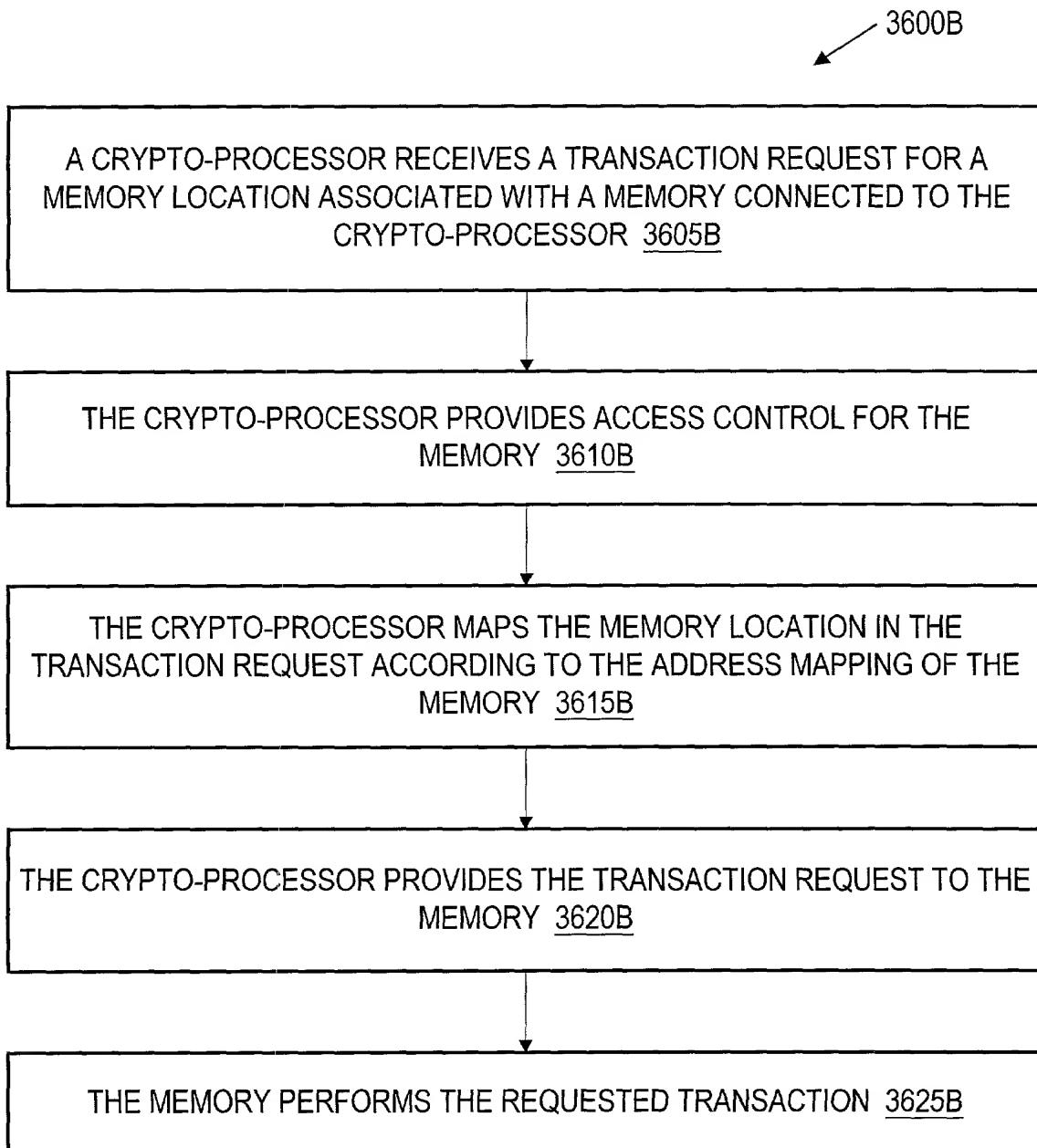


Fig. 25B

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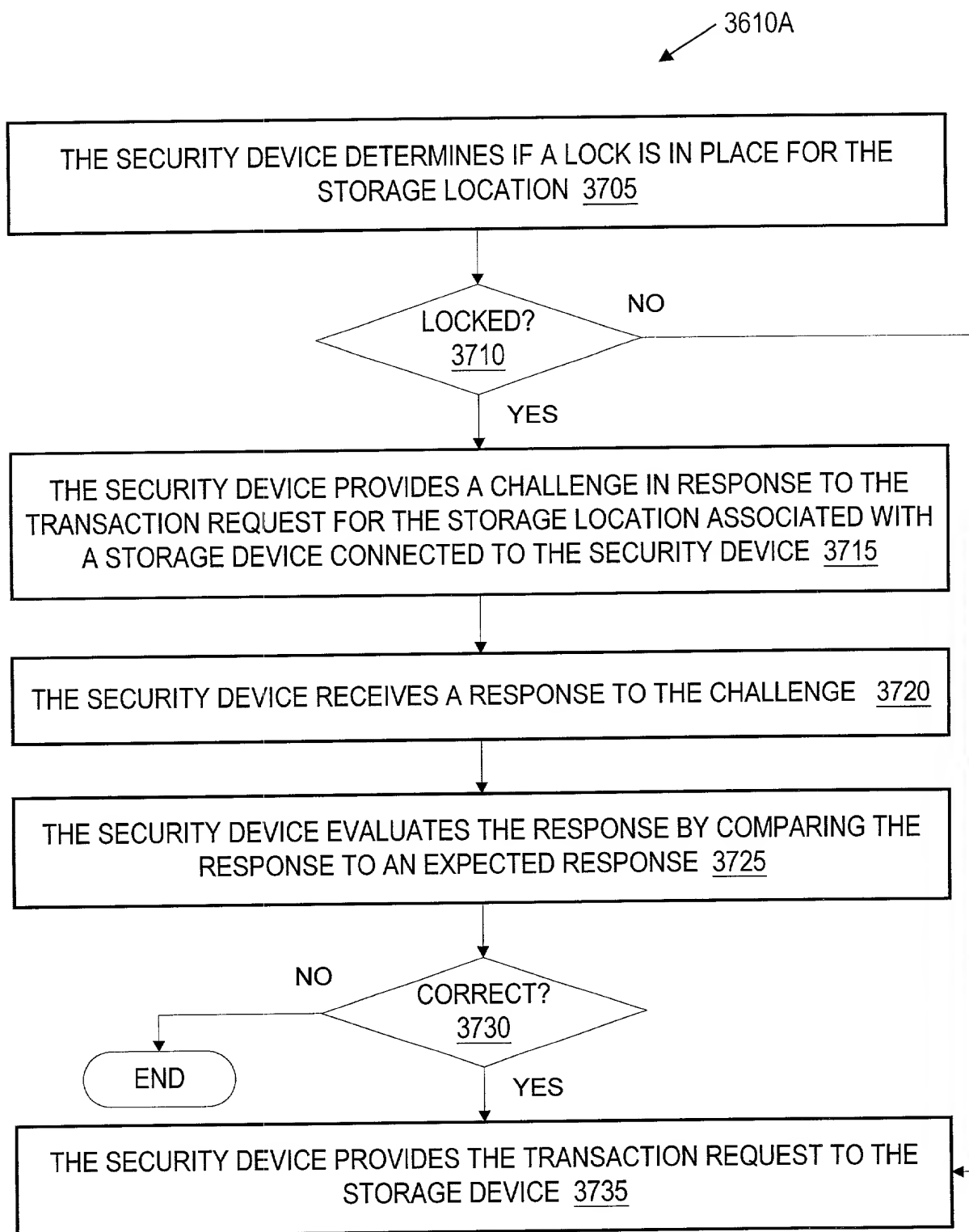


Fig. 26

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3620

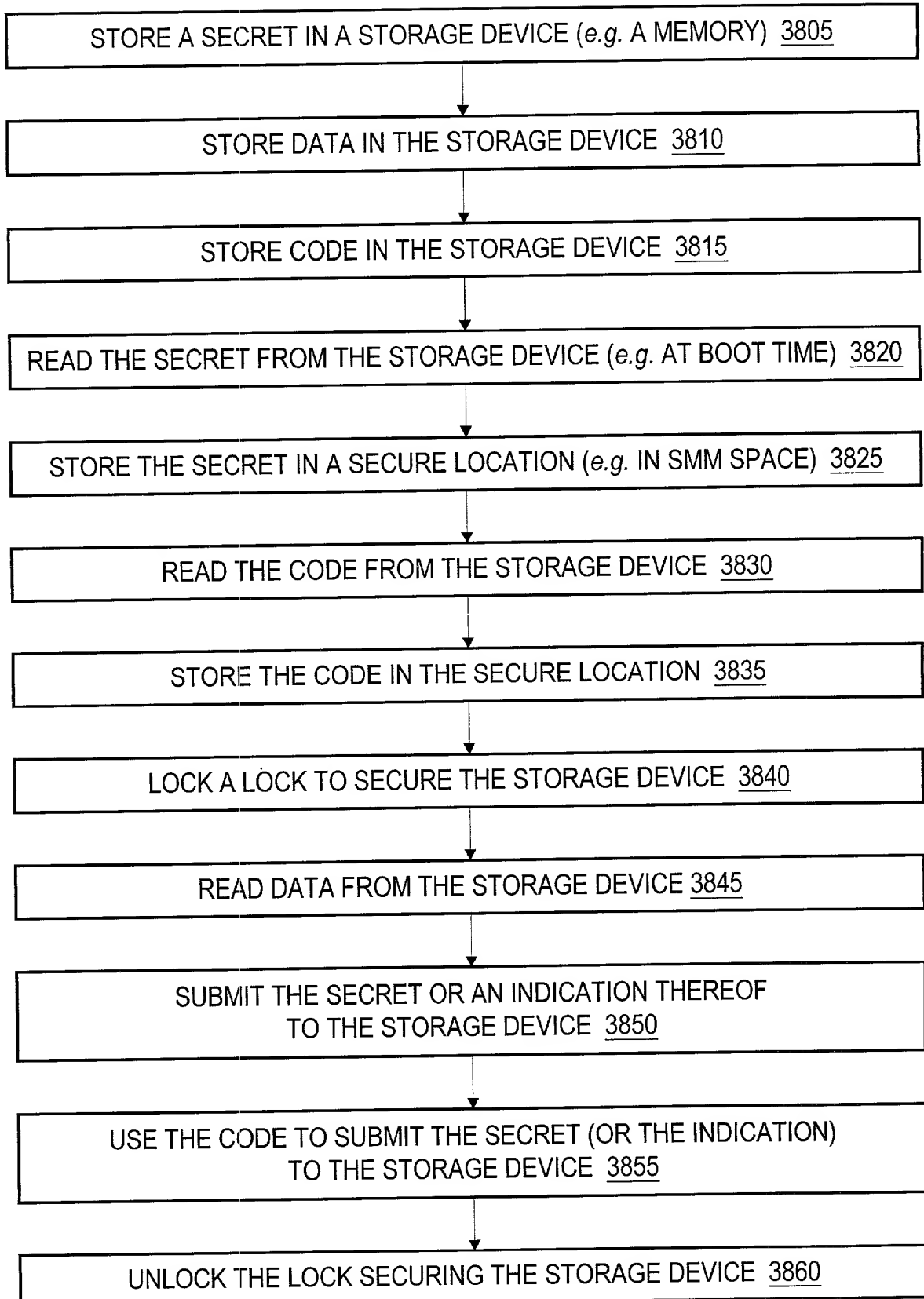


Fig. 27

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3900

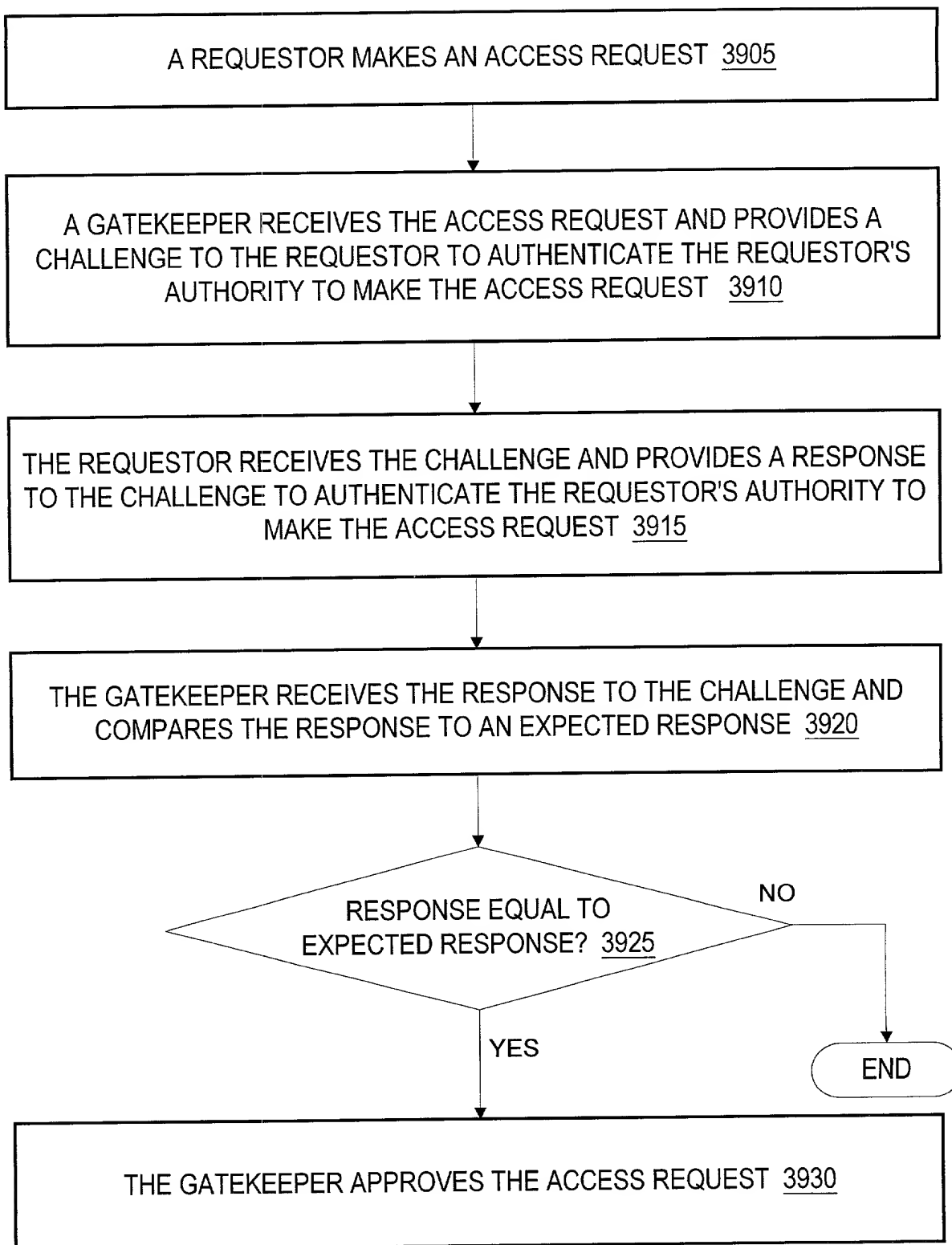


Fig. 28
(Prior Art)

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4000A

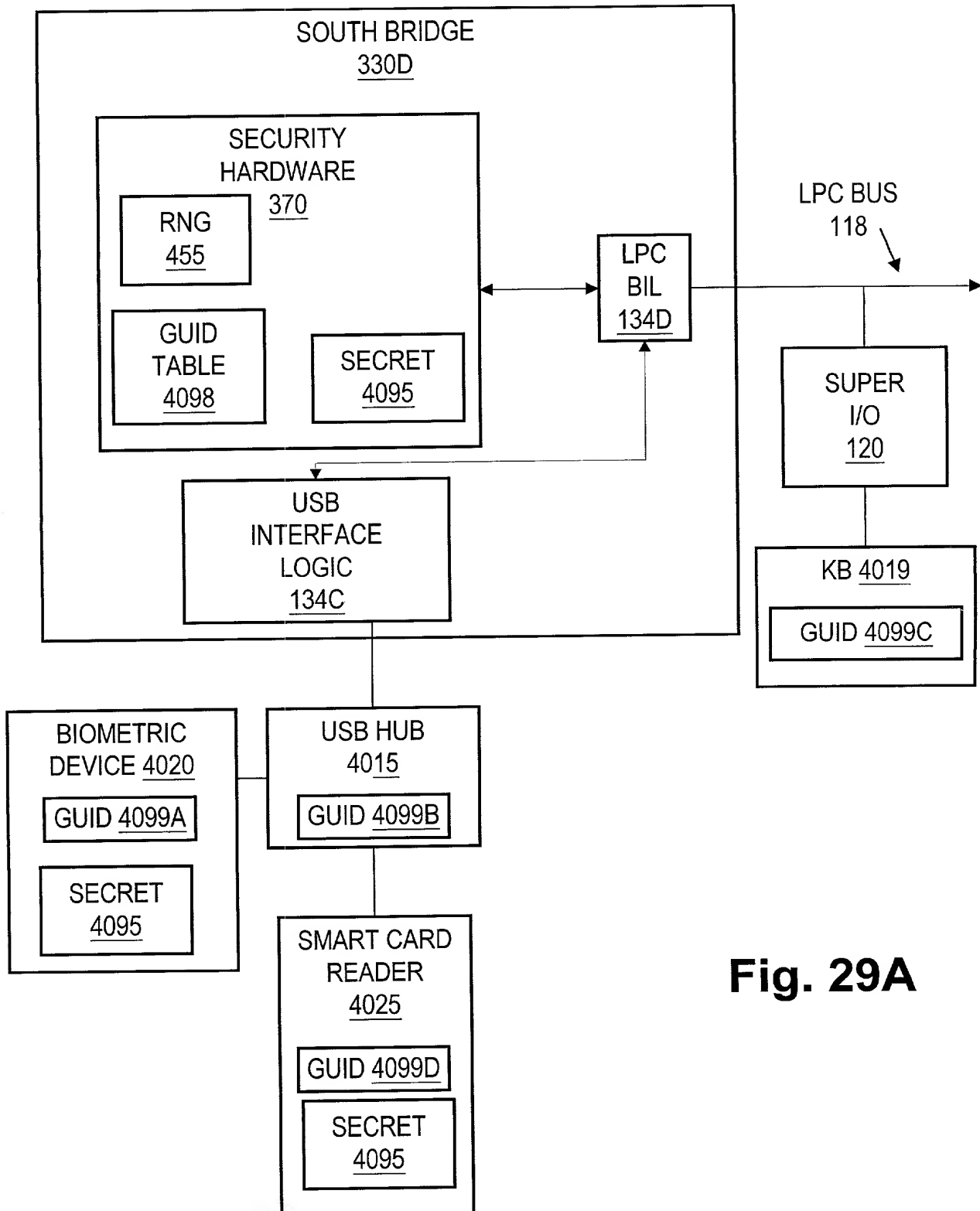


Fig. 29A

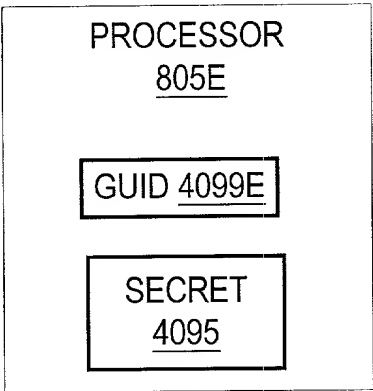


Fig. 29B

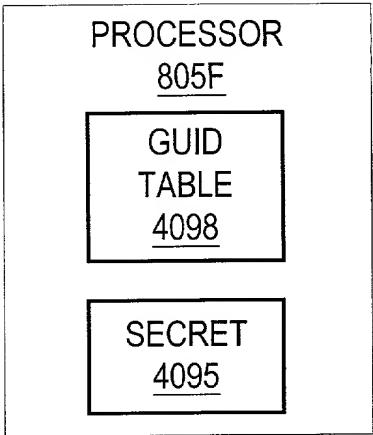


Fig. 29C

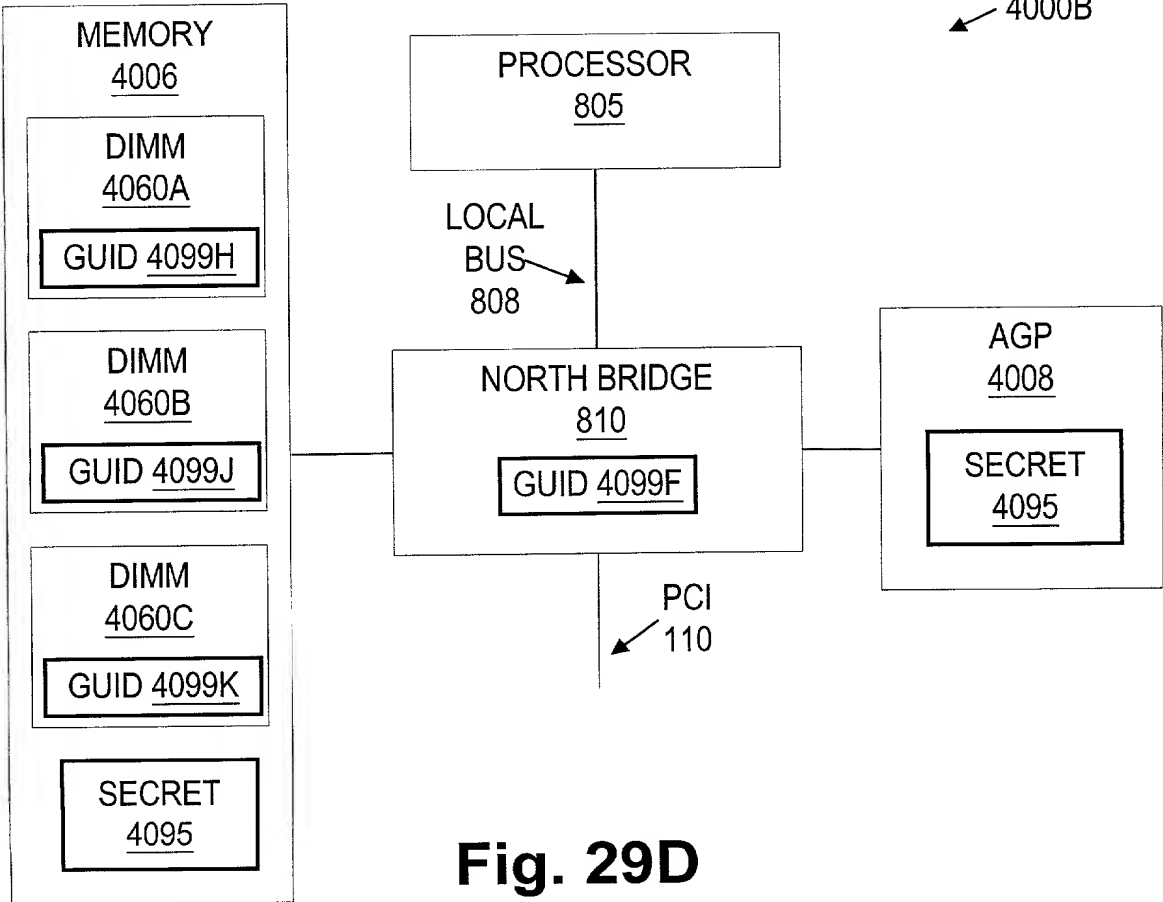


Fig. 29D

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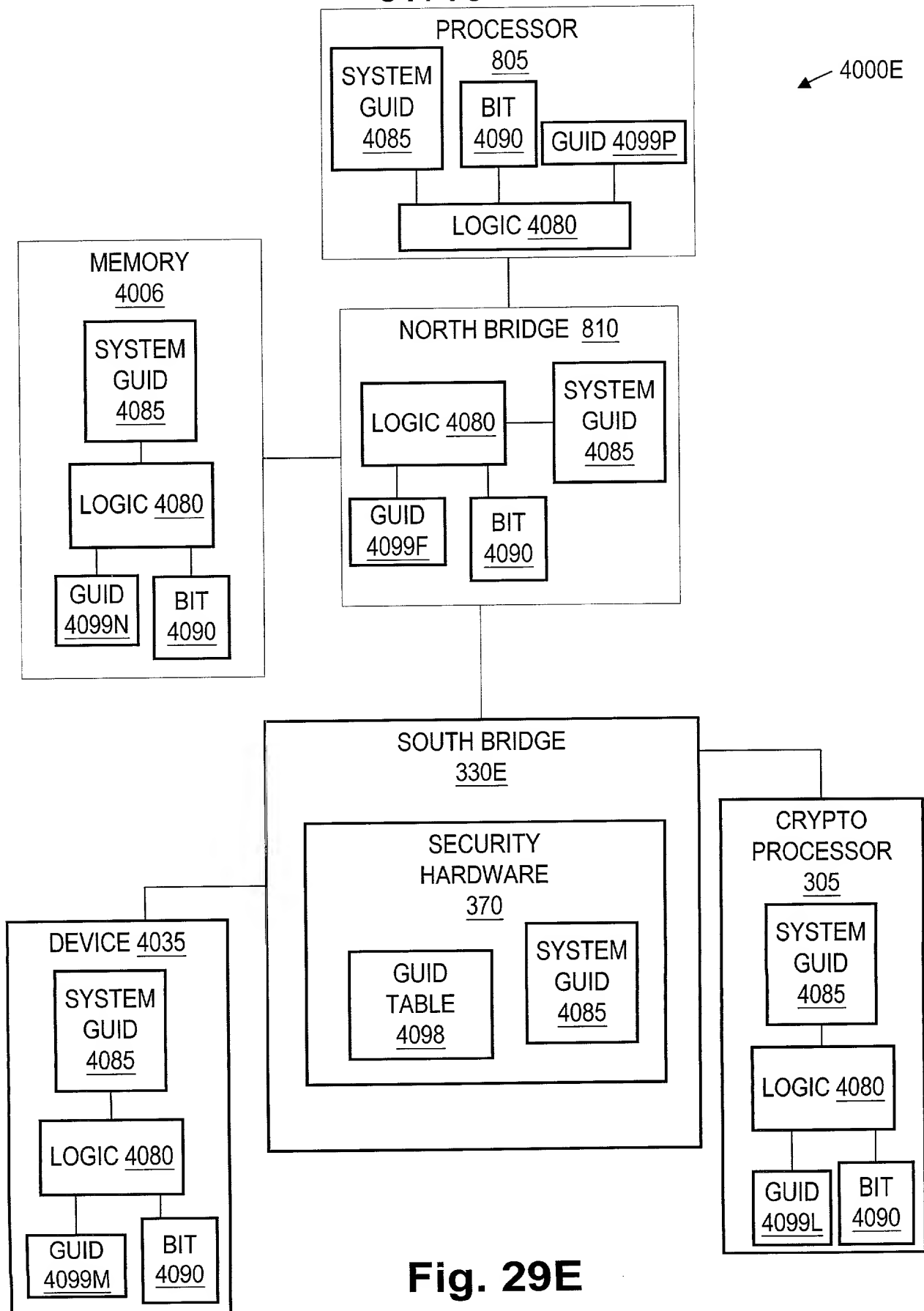


Fig. 29E

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4100A

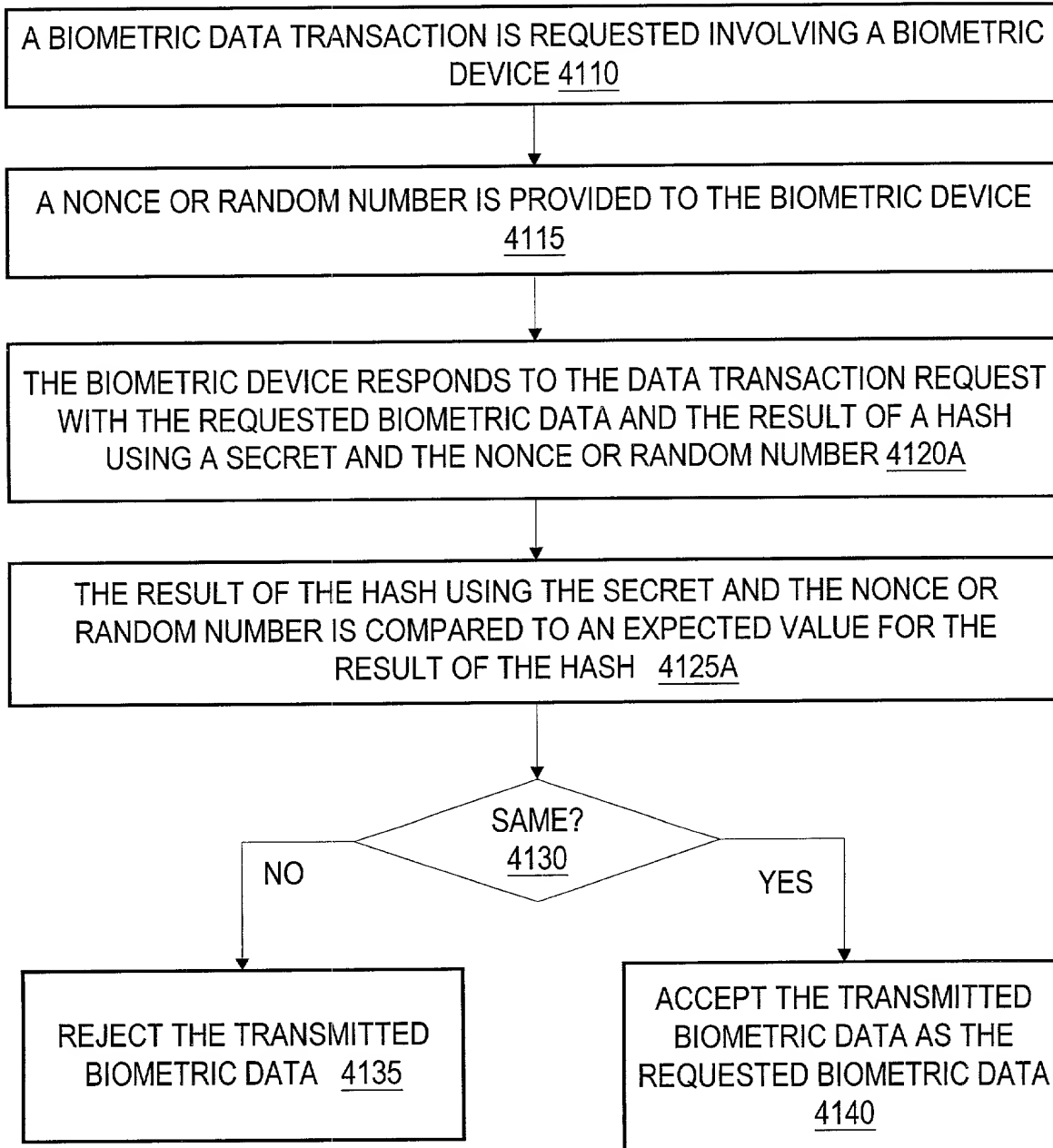


Fig. 30A

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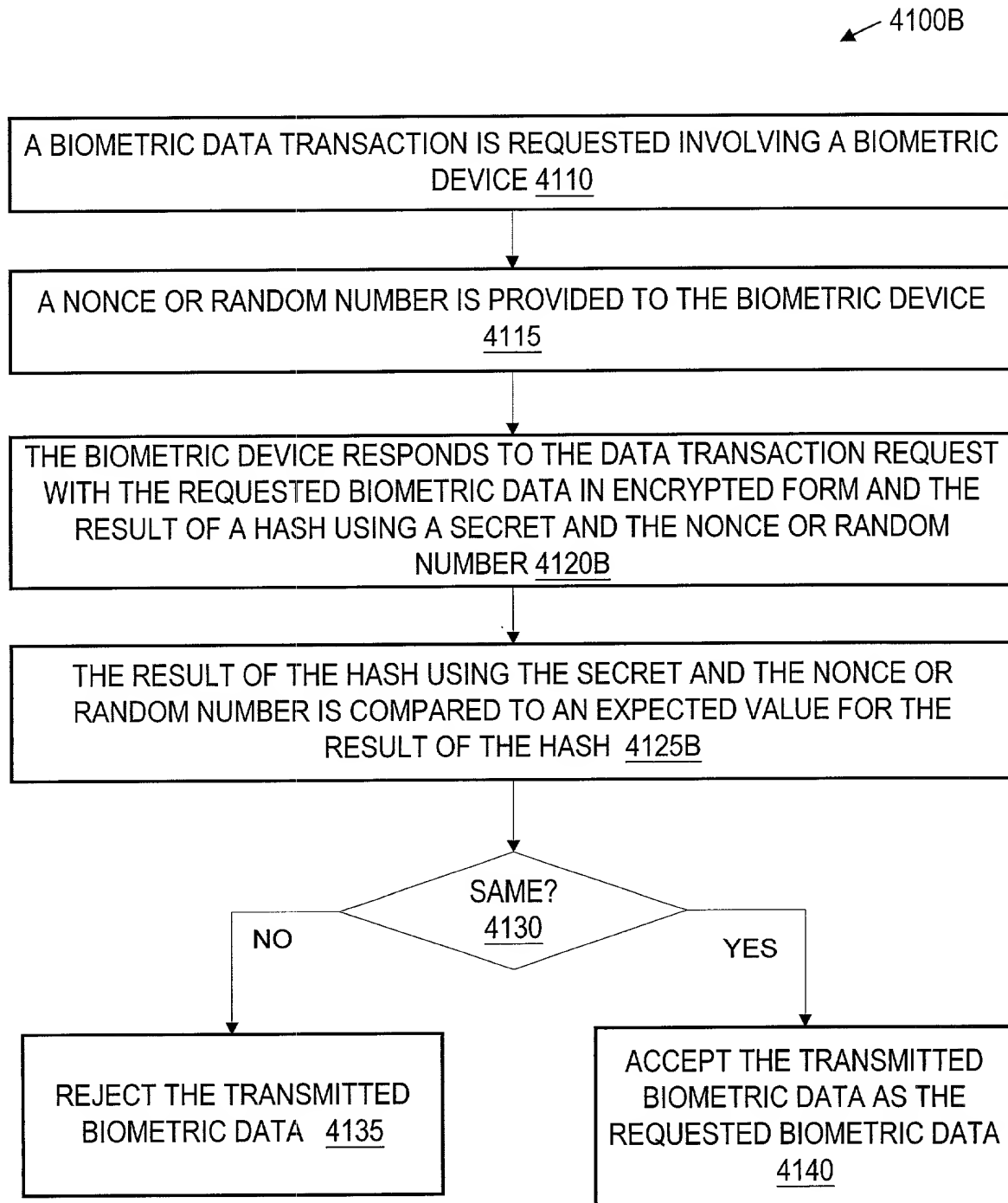


Fig. 30B

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4200A

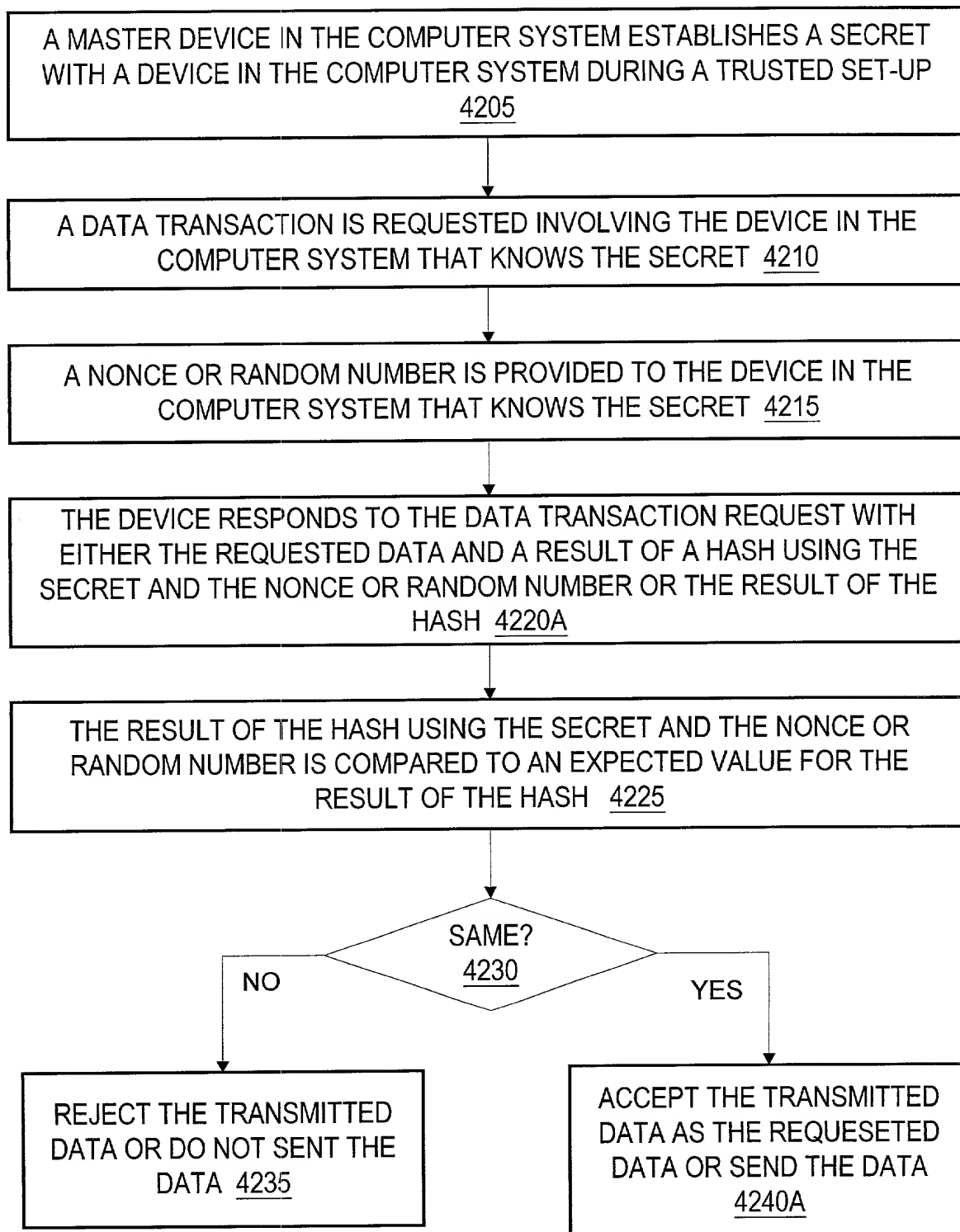


Fig. 31A

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4200B

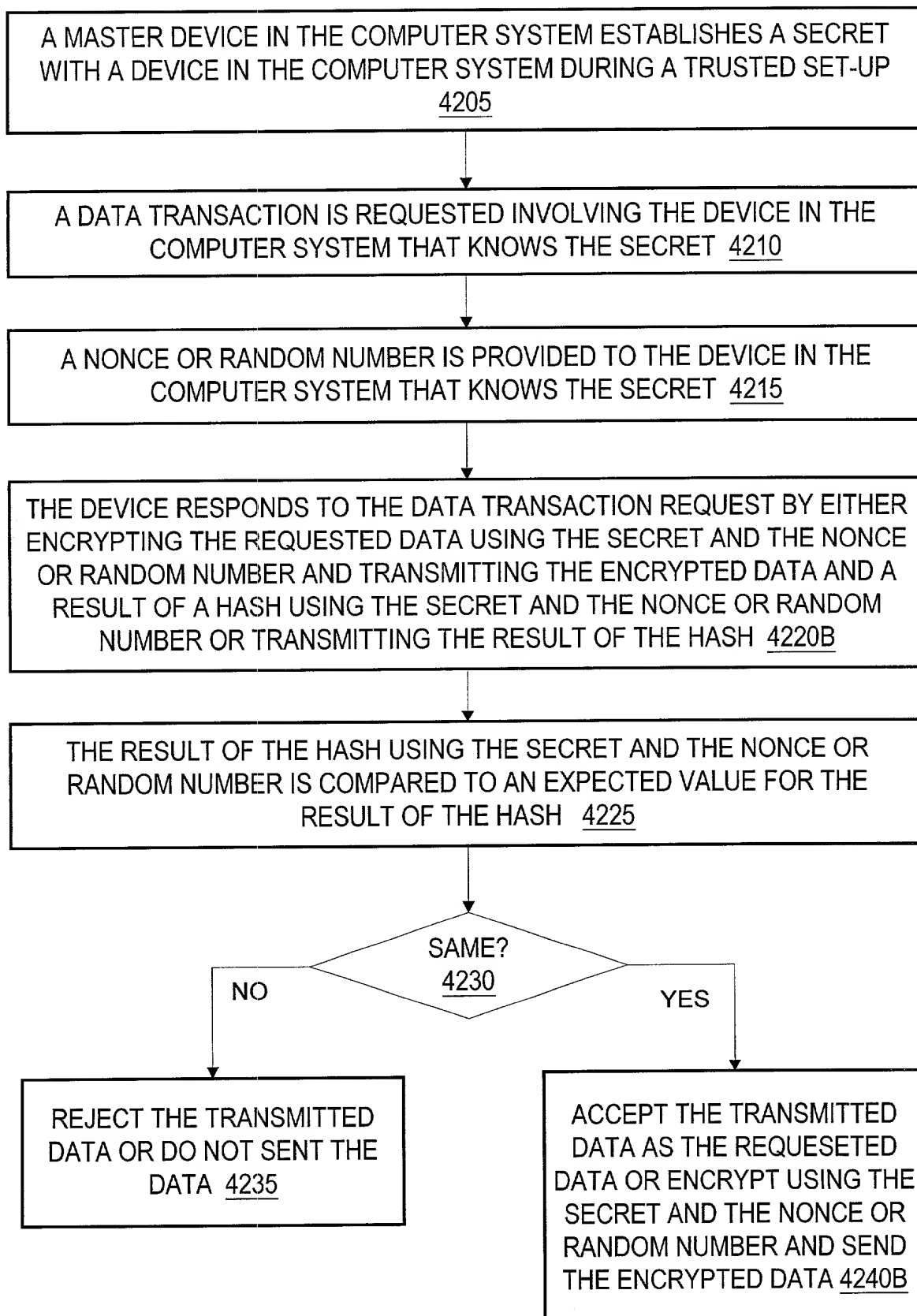


Fig. 31B

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4300A

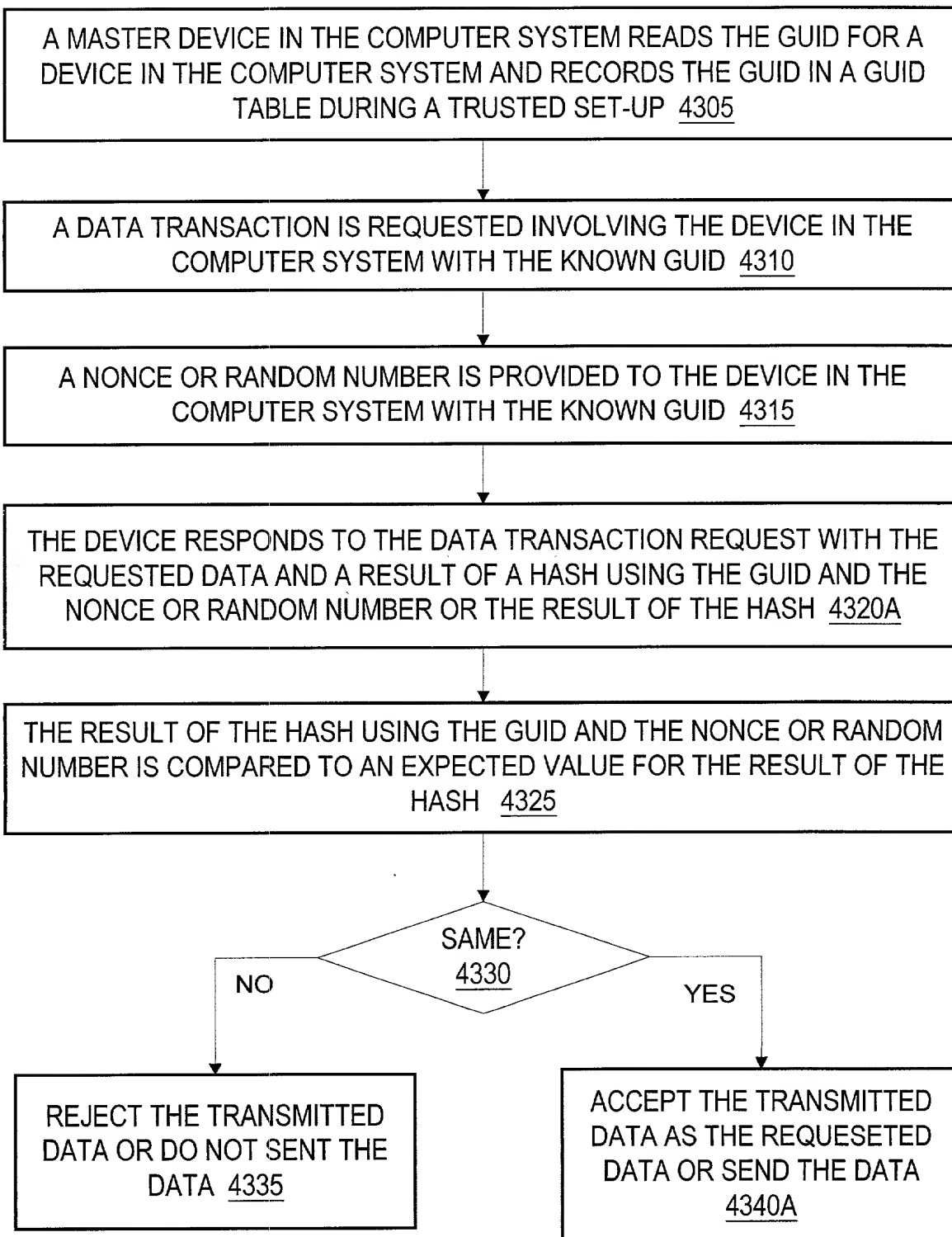


Fig. 32A

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4300B

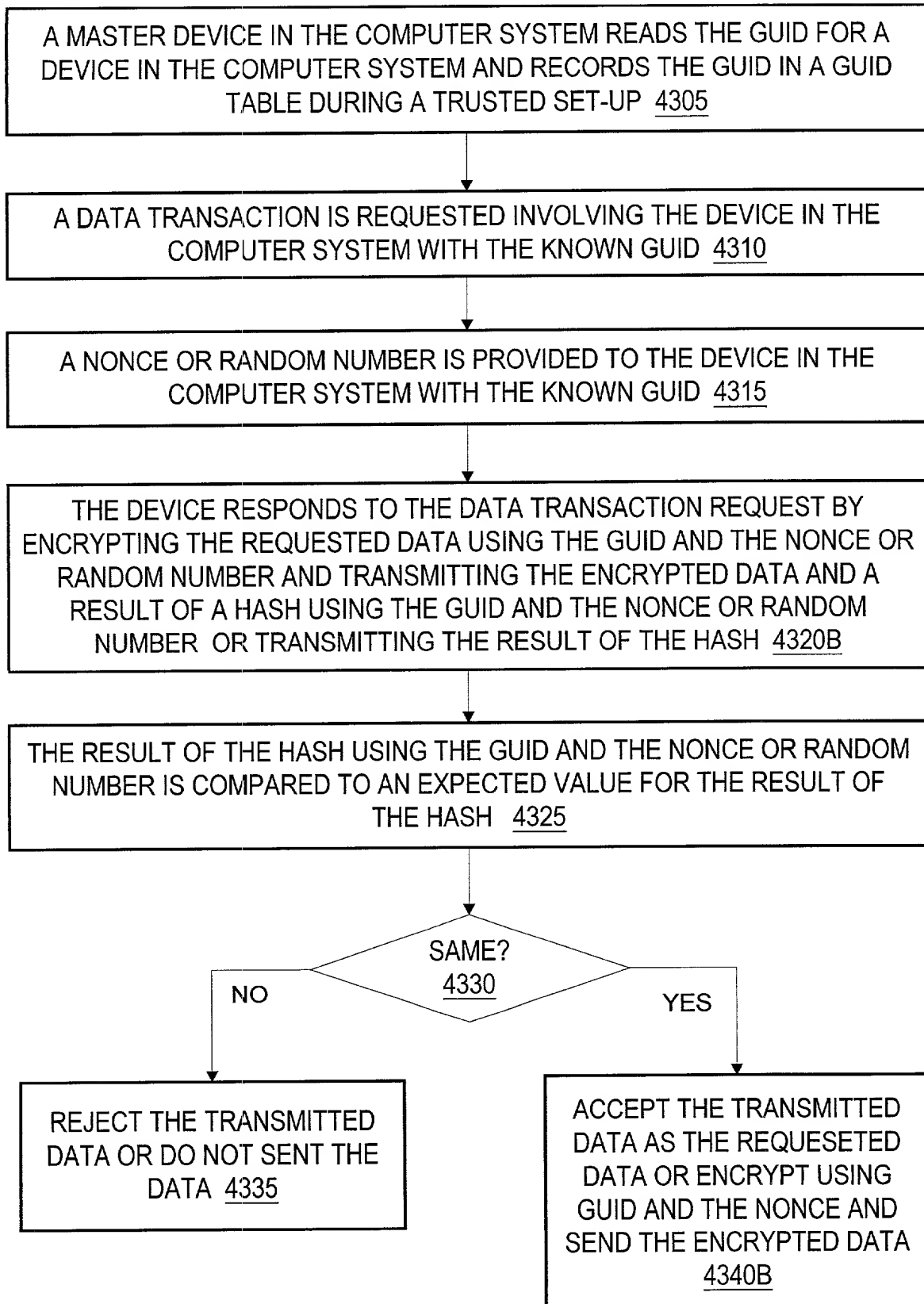


Fig. 32B

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4300C

A MASTER DEVICE IN THE COMPUTER SYSTEM READS THE GUID FOR A DEVICE IN THE COMPUTER SYSTEM, RECORDS THE GUID IN A GUID TABLE, AND TRANSMITS A SECRET TO THE DEVICE DURING A TRUSTED SET-UP

4306

A DATA TRANSACTION IS REQUESTED INVOLVING THE DEVICE IN THE COMPUTER SYSTEM WITH THE KNOWN GUID THAT KNOWS THE SECRET

4311

A NONCE OR RANDOM NUMBER IS PROVIDED TO THE DEVICE IN THE COMPUTER SYSTEM WITH THE KNOWN GUID THAT KNOWS THE SECRET

4316

THE DEVICE RESPONDS TO THE DATA TRANSACTION REQUEST BY ENCRYPTING THE REQUESTED DATA USING THE SECRET, THE GUID, AND THE NONCE OR RANDOM NUMBER AND TRANSMITTING THE ENCRYPTED DATA AND A RESULT OF A HASH USING THE SECRET, THE GUID, AND THE NONCE OR RANDOM NUMBER OR TRANSMITTING THE RESULT OF THE HASH 4320C

THE RESULT OF THE HASH USING THE SECRET, THE GUID, AND THE NONCE OR RANDOM NUMBER IS COMPARED TO AN EXPECTED VALUE FOR THE RESULT OF THE HASH 4326

SAME?

4330

NO

YES

REJECT THE TRANSMITTED DATA OR DO NOT SENT THE DATA 4335

ACCEPT THE TRANSMITTED DATA AS THE REQUESETED DATA OR ENCRYPT USING THE SECRET, THE GUID, AND THE NONCE AND SEND THE ENCRYPTED DATA 4340C

Fig. 32C

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4400

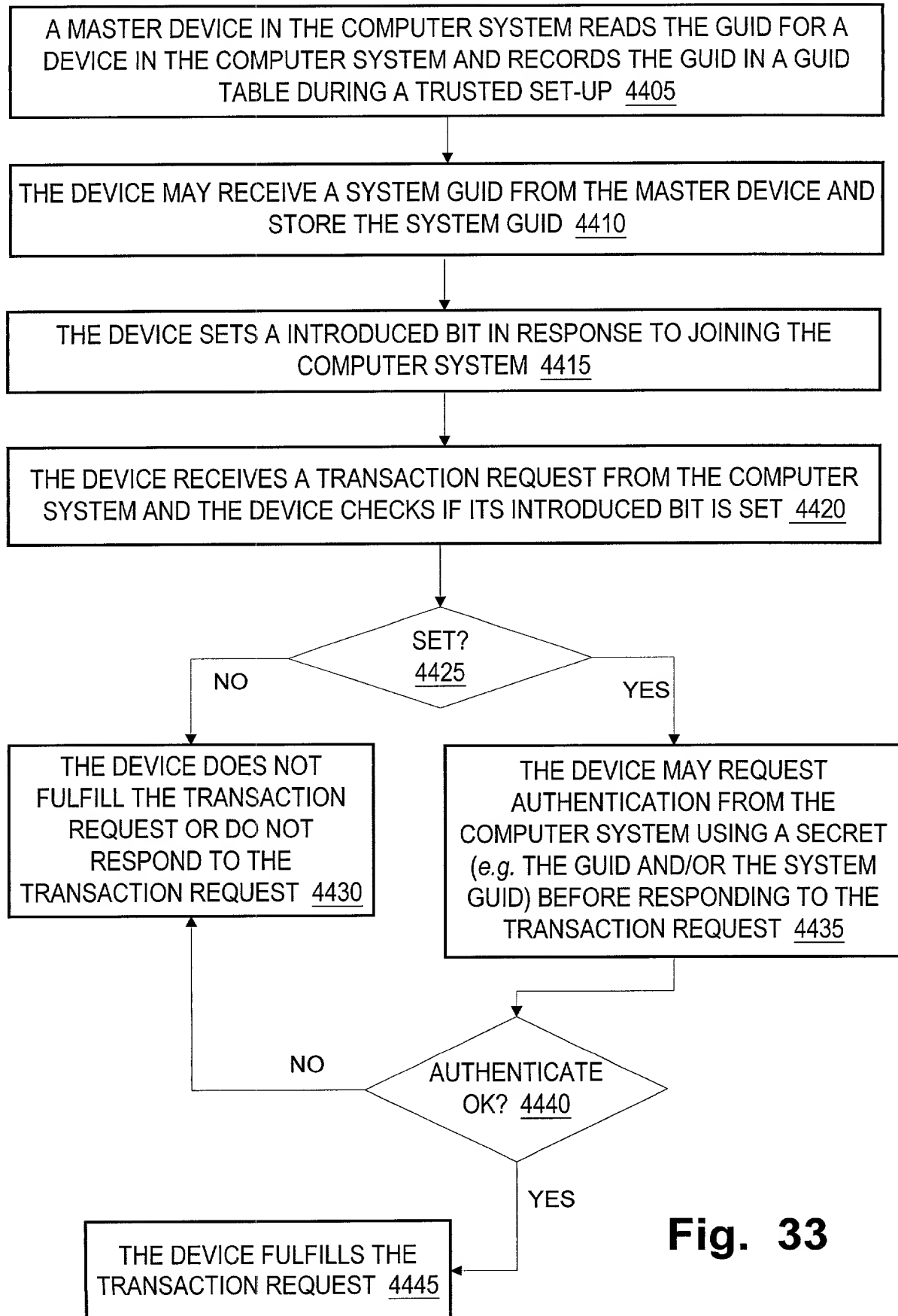
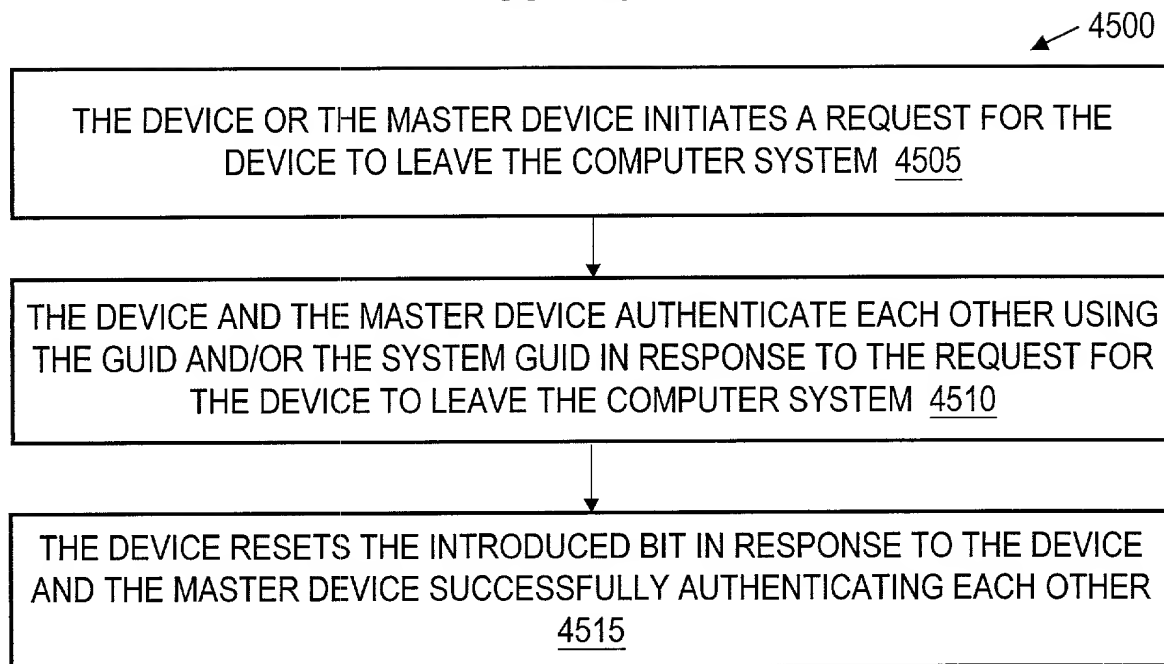
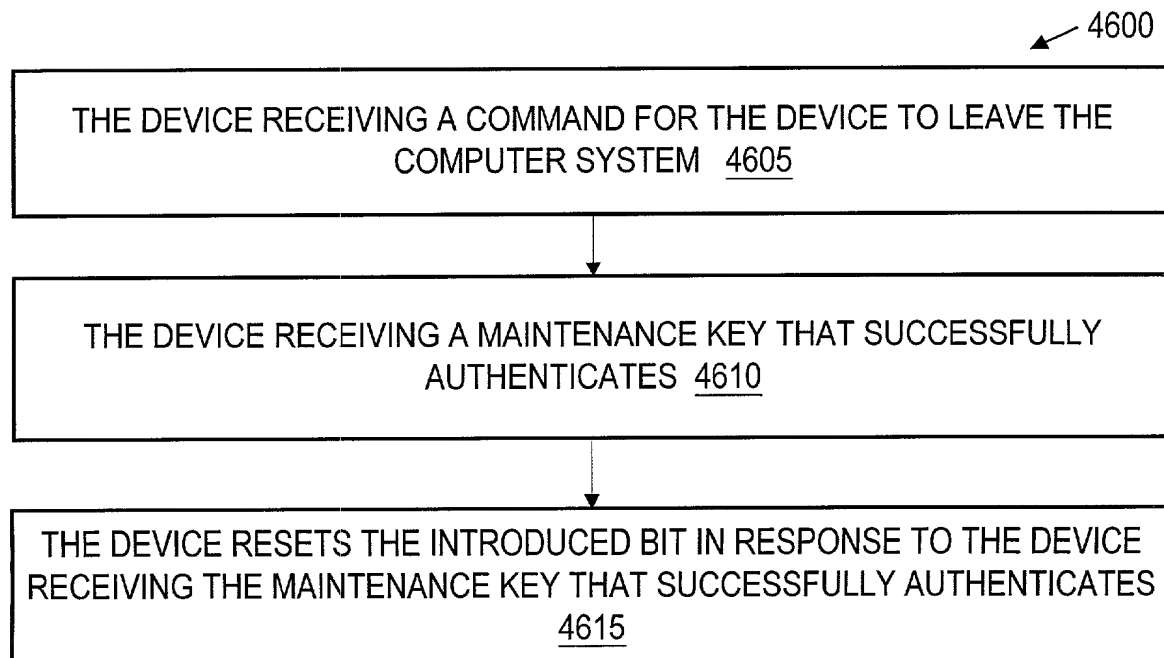


Fig. 33

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**Fig. 34****Fig. 35**

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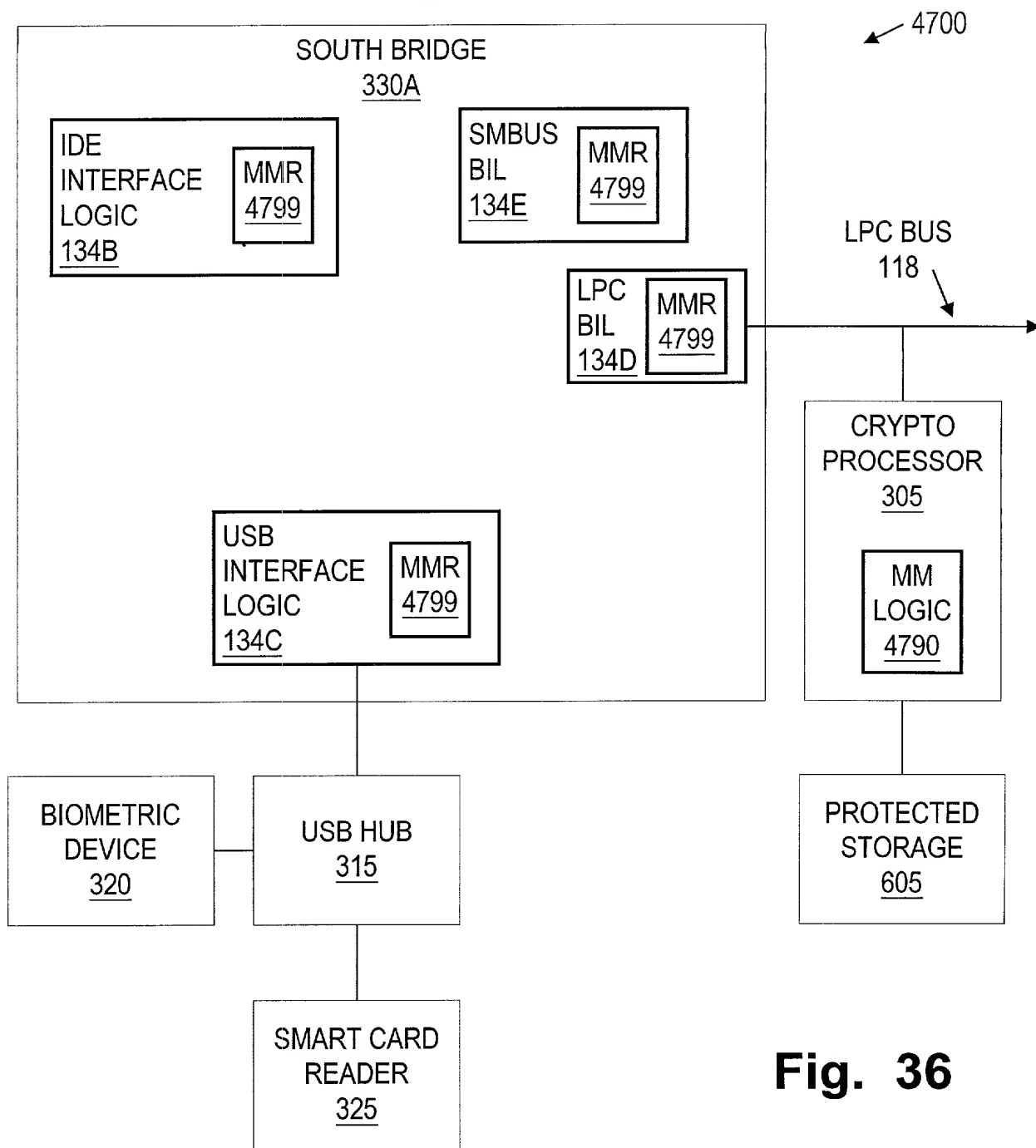


Fig. 36

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4800

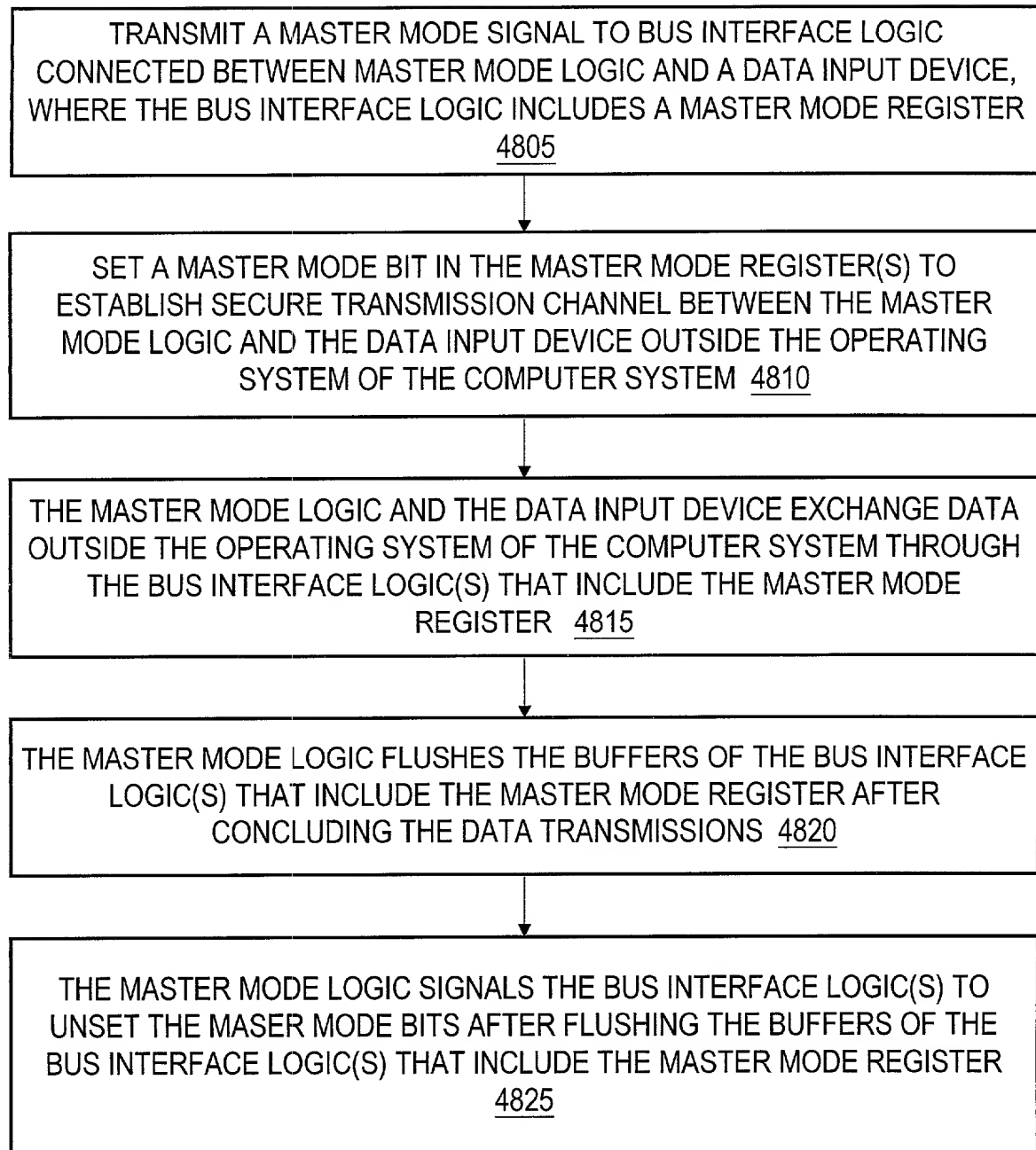


Fig. 37

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4900A

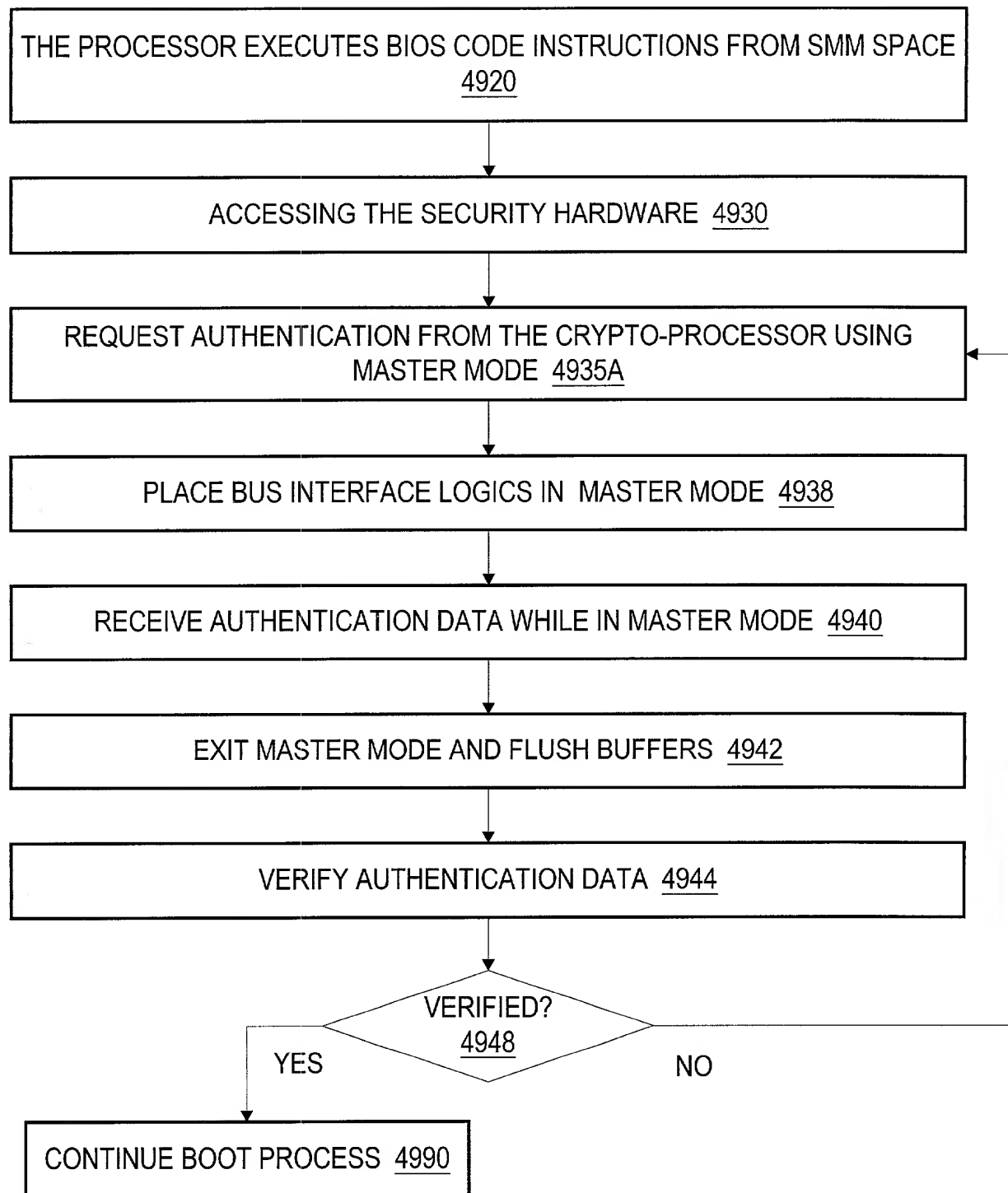


Fig. 38A

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4900B

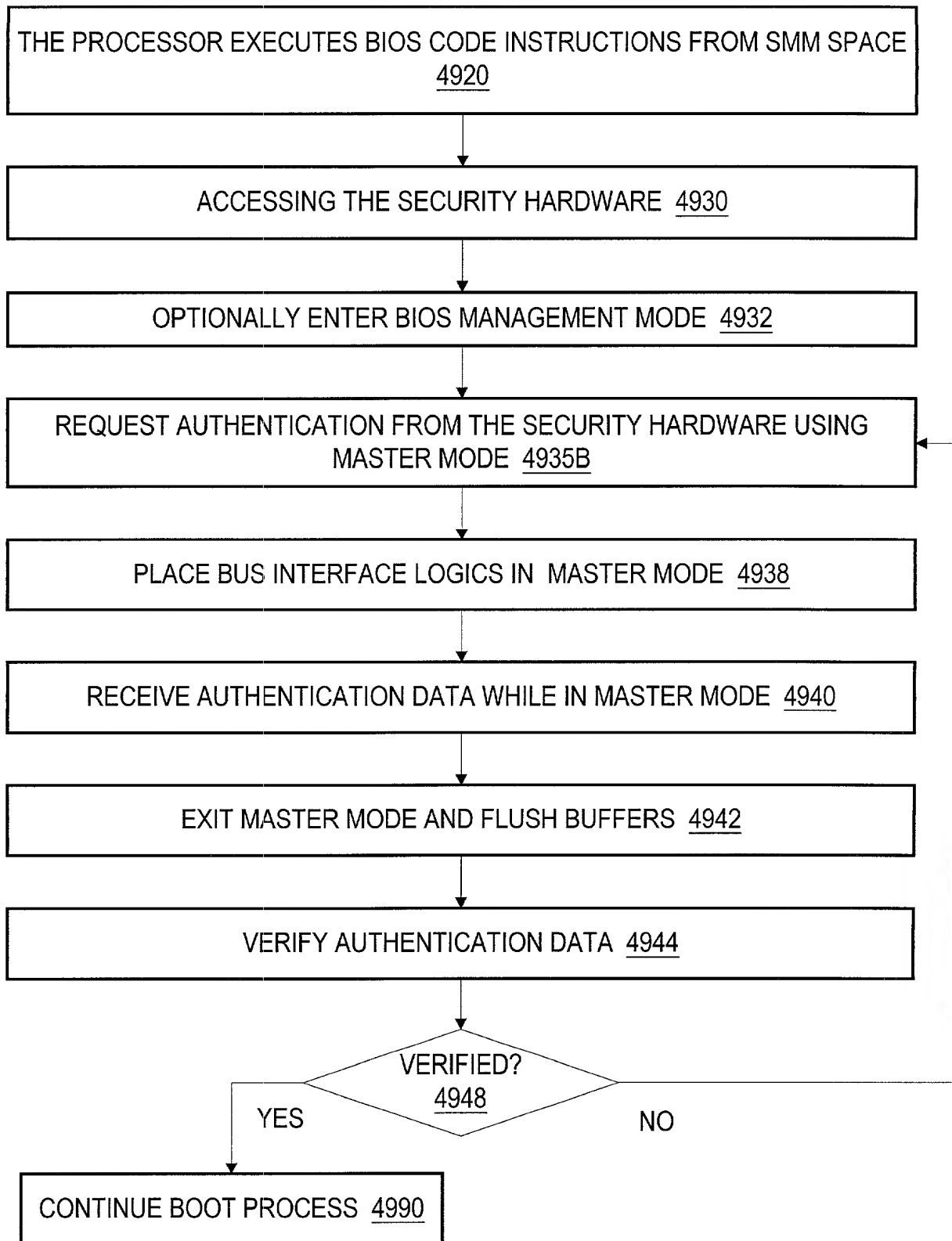
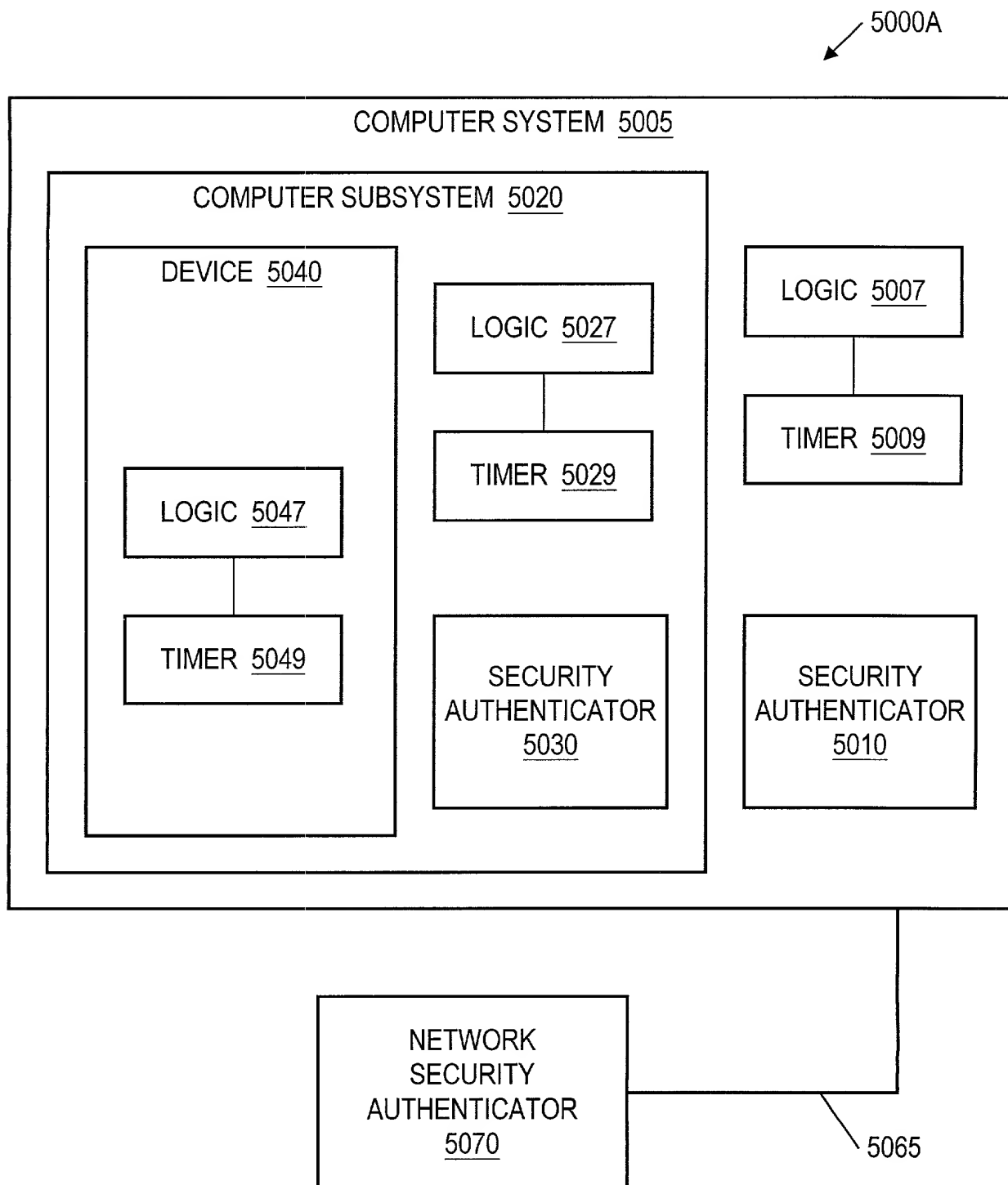


Fig. 38B

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**Fig. 39A**

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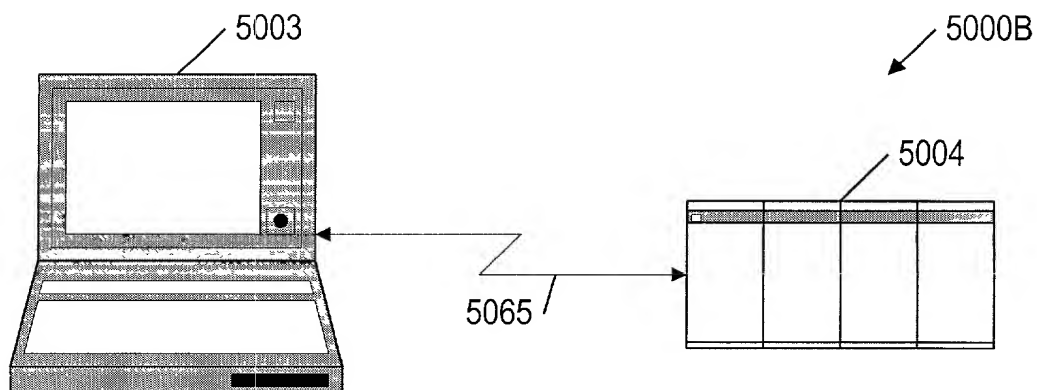


Fig. 39B

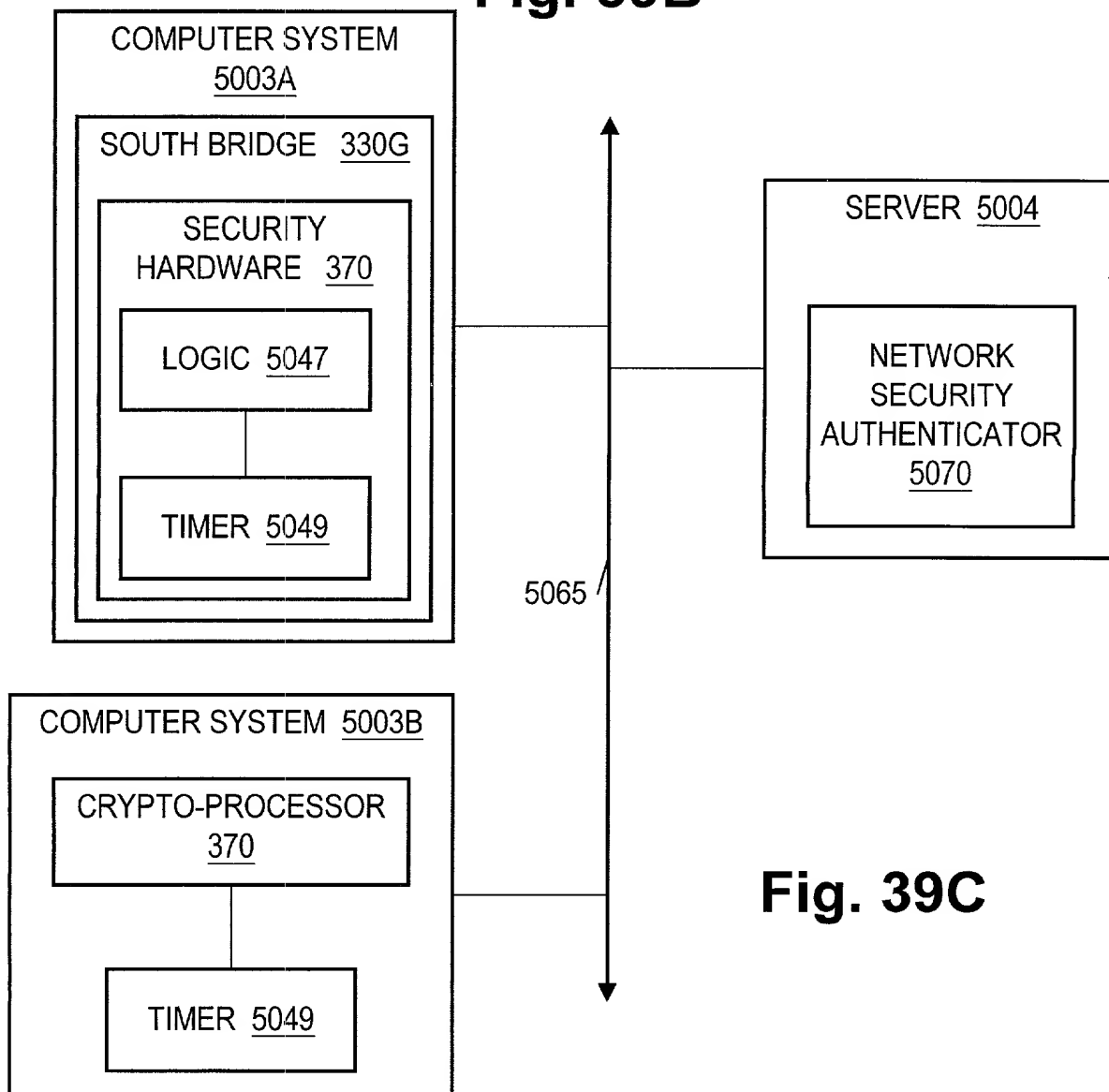


Fig. 39C

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5100A

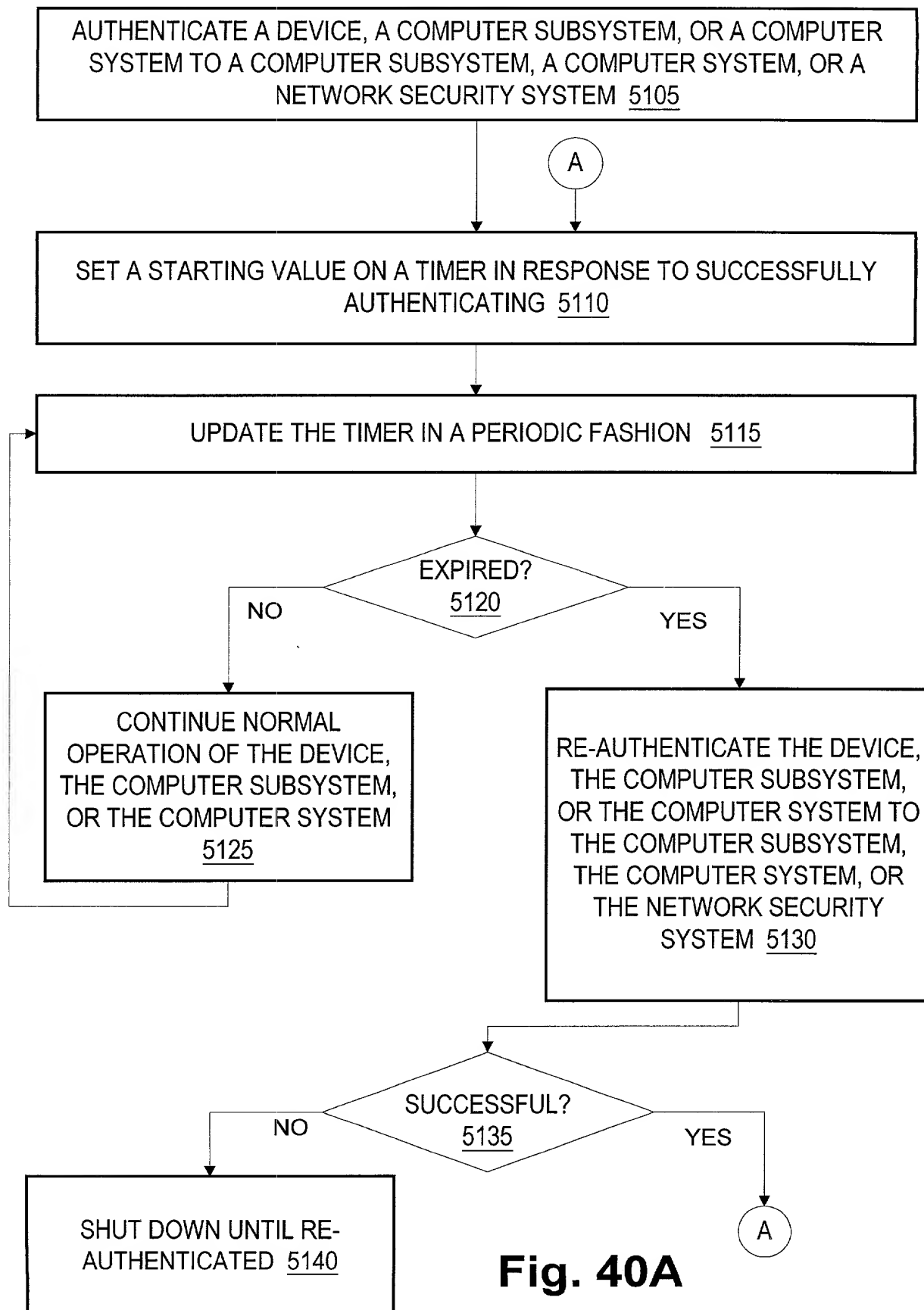
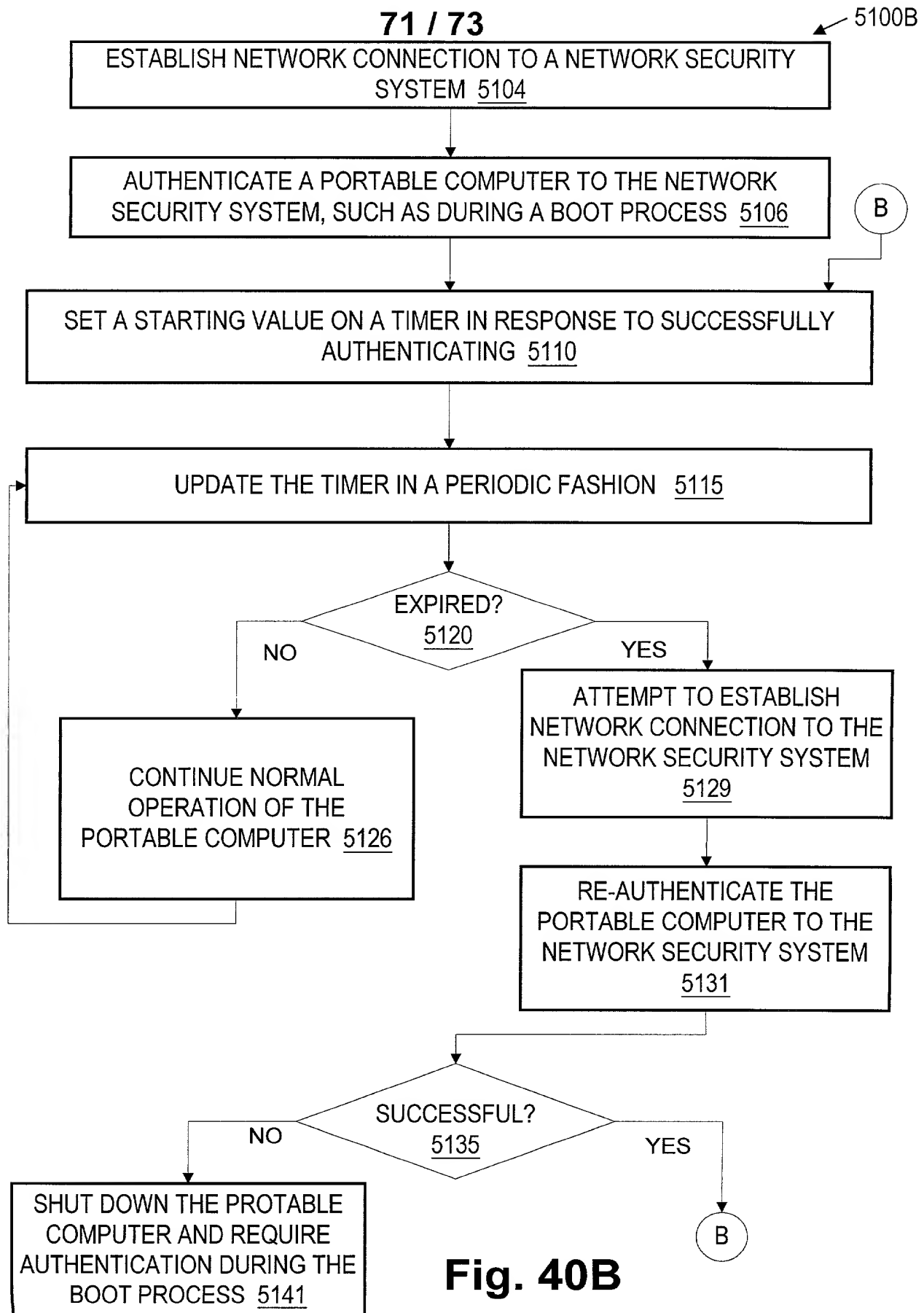


Fig. 40A



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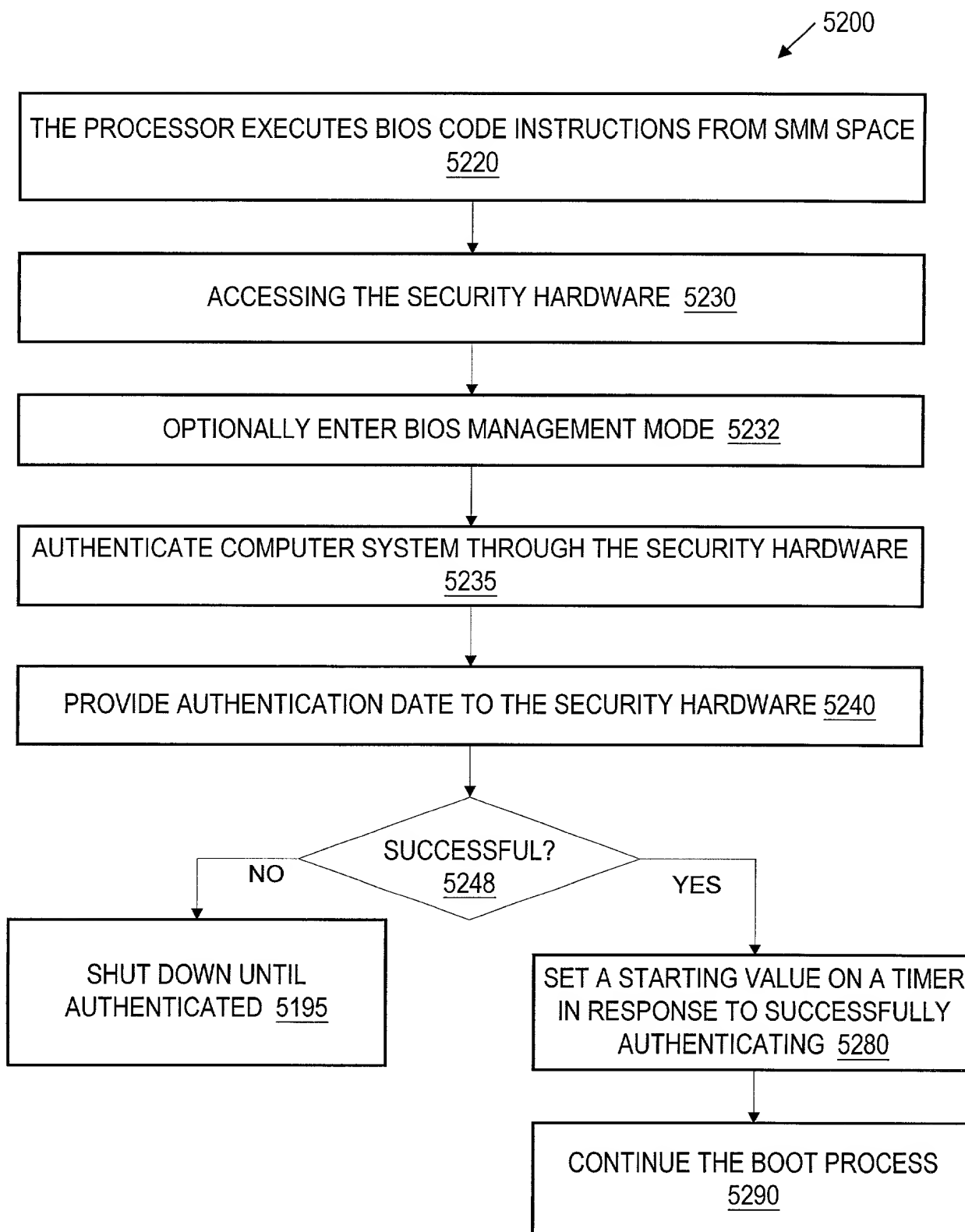


Fig. 41

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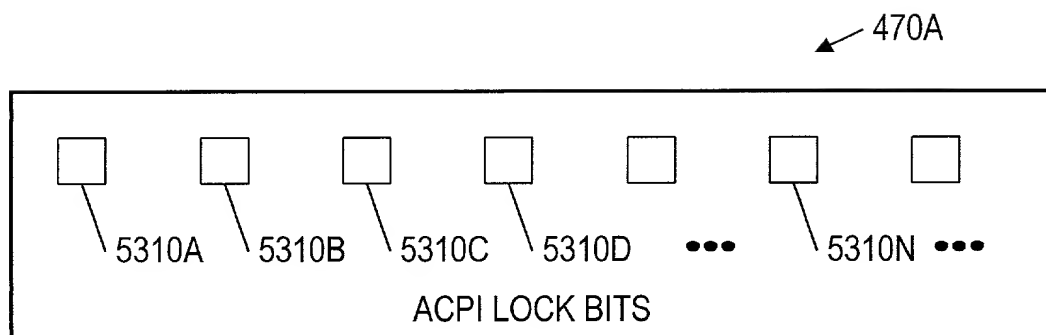


Fig. 42A

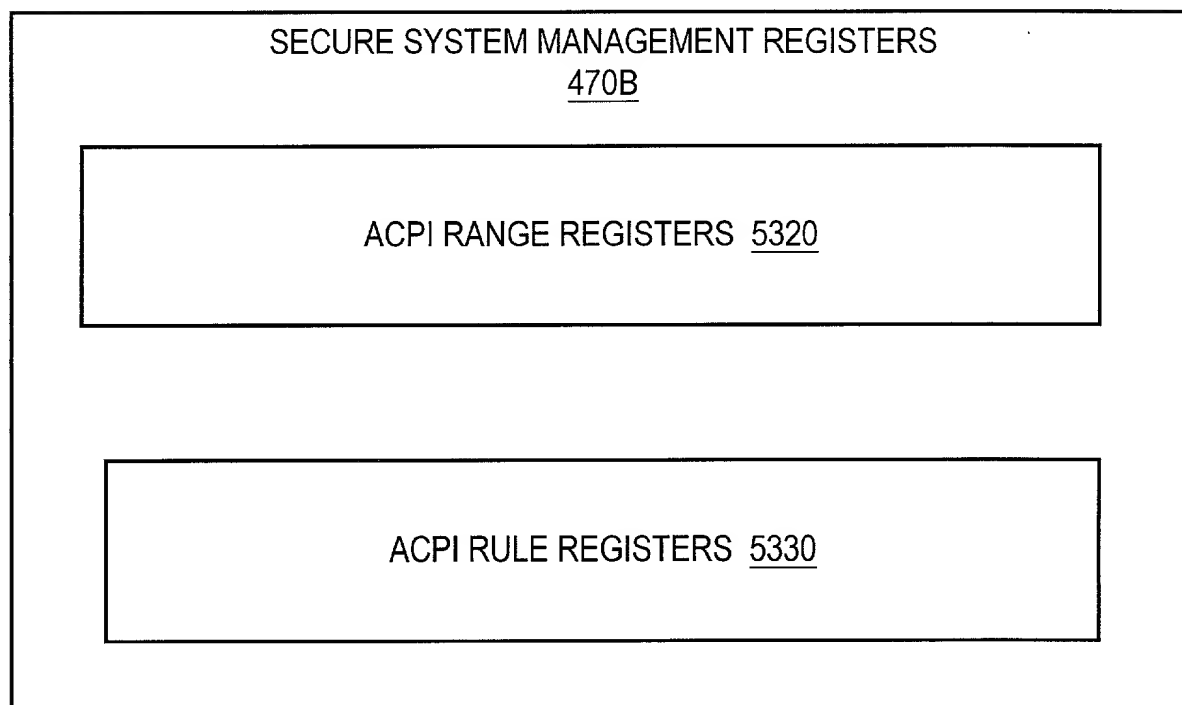


Fig. 42B